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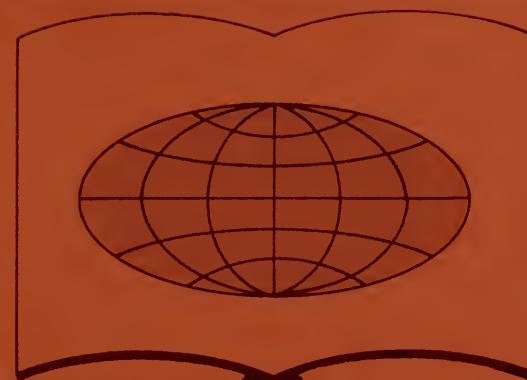
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VOLUME 4, NUMBER 8
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These issues of the Pesticides Documentation Bulletin introduce a new computer generated current awareness service. Through the Pesticides Information Center's Update, Publication and Search (PICUPS) system, a categorized bibliographic citation file, accompanied by subject, author, organization and biographical indices will be issued bi-weekly.

All elements of the citations maintained in this mechanized file system are searchable by computer. In addition to the printed subject descriptors appearing in the Bulletin, other subject descriptors are incorporated in the tape file system as machine searchable but non-printable items. In the early issues some of these subject terms appear in the Bulletin as duplications. These duplications will be eliminated in later programs.

Since retrospective information was not previously published in searchable form, the next several issues of the Bulletin will contain selected coverage of pest control literature issued between 1960 and 1966. Additional retrospective material will be incorporated in future bulletins through the special bibliographies prepared by the Center. Current pest control literature will receive comprehensive coverage. Future expansion will include selected abstracts when such abstracts appear in the source document.

Recipients of this introductory issue are invited to send their comments and suggestions for its improvement to the U.S. Department of Agriculture, National Agricultural Library, Pesticides Information Center, 4112-Auditors Building, Washington, D. C. 20250. These comments together with computer produced statistical analyses will provide the bases for future changes.

Blanche L. Oliveri

Blanche L. Oliveri
Acting Director
National Agricultural Library



PESTICIDES DOCUMENTATION BULLETIN

A BI-WEEKLY PUBLICATION OF

U. S. DEPARTMENT OF AGRICULTURE

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OBJECTIVES AND SCOPE

The Pesticides Documentation Bulletin is compiled by the Pesticides Information Center, the first of its kind to be established within a national library. It is a bi-weekly index to the literature on pests and their control and the impact on the economy and man's total environment. The index includes literature on diseases, insects, nematodes, parasites, weeds, and other pests affecting plants, animals, man, our natural resources, and other values in man's environment. Literature on biological, chemical, cultural, ecological, mechanical, and integrated methods of pest control will be included. Special emphasis is given to the literature on the toxicological, physiological and epidemiological aspects of pests and their control by chemical and nonchemical methods.

For broader coverage of literature on agriculture and related subjects, please consult the Bibliography of Agriculture, a monthly publication of the National Agricultural Library.

FORMAT

The Bulletin is a categorized bibliography, with citations arranged alphabetically by author under the following major subjects:

- 10 Entomology
- 20 Crop Protection
- 30 Livestock Protection
- 40 Commodity Protection
- 50 Environmental Contamination
- 55 Residues
- 60 Toxicology
- 65 Plant Physiology & Biochemistry
- 70 Chemistry
- 80 Engineering
- 90 Industry

Citations: Each citation consists of an accession number assigned serially with the last two digits representing the Bulletin's issue year, i.e. 3286-67. The citation number (minus the year) is used

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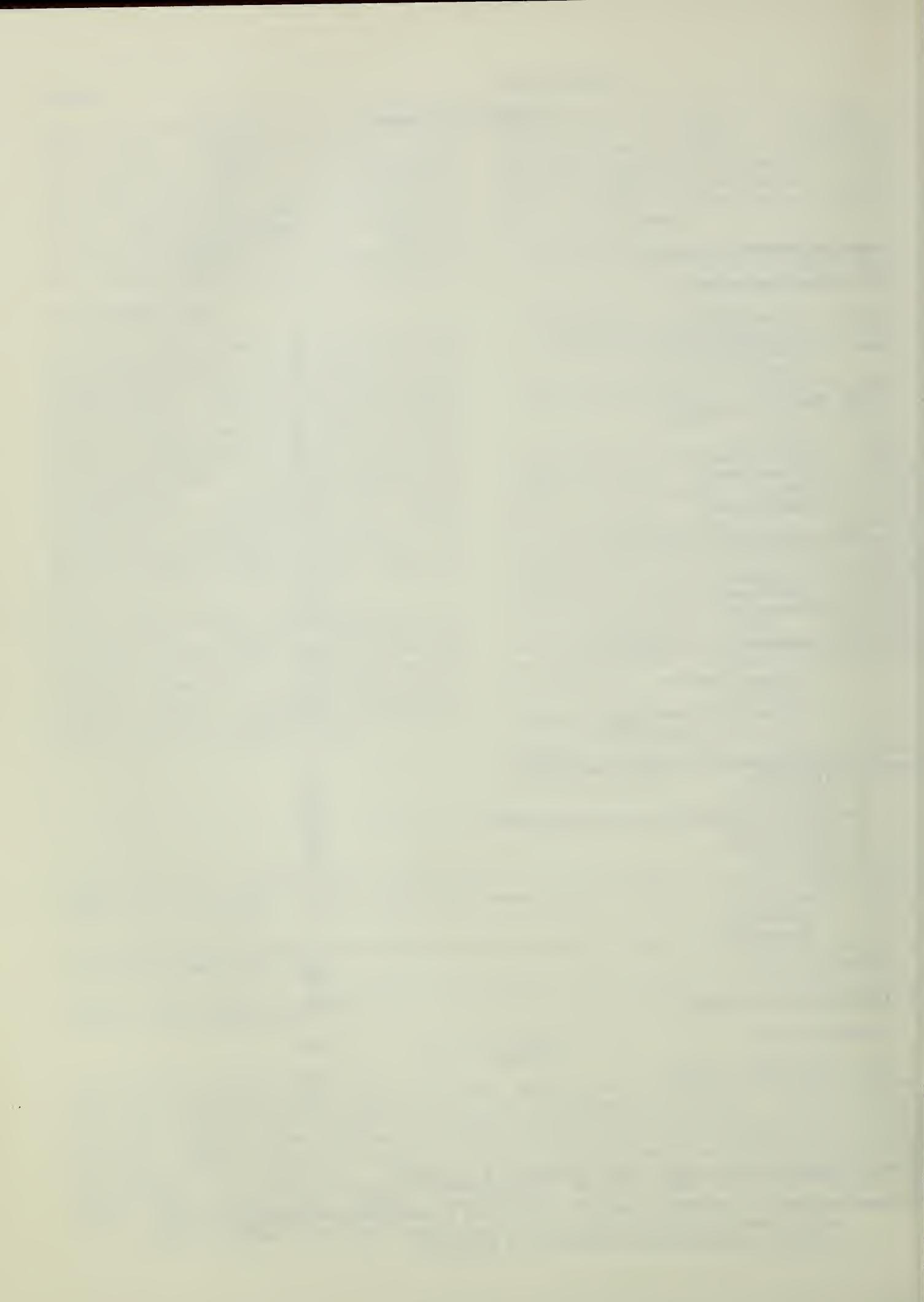
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BIBLIOGRAPHY

10 9340-68

10 ENTOMOLOGY

Systematics

9317-68
 NOTES ON SOME NEW WORLD CONOPIDAE (DIPTERA).
Entomol Soc Amer Ann 56(6):824-826
 Nov 1963 420 EN82
 Conopidae, Insect identification.

9318-68
 EIGHT NEW AMBLYSEIUS FROM MEXICO WITH COLLECTION NOTES ON
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Fla Entomol 44(2):85-91, 3 REFS.
 Jun 1961 420 F662
Amblyseius, Insect identification, Mexico, Mites.

9319-68
 THE GENERA OF PLATYSTOMATIDAE AND OTITIDAE KNOWN TO OCCUR
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Entomol Soc Amer Ann 54(3):401-410
 May 1961 420 EN82

9320-68
 A NEW GENUS OF MITES OCCURRING IN FLORIDA AND MEXICO
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Fla Entomol 42(1):17-19, 2 REFS.
 Mar 1959 420 F662
Insect identification, Ixodidae.

9321-68
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CALYPTODESMUS SCHUBARTI, N. SP. (STYLODESMIDAE:
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Fla Entomol 43(3):147-150
 Sep 1960 420 F662
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9322-68
 A NEW FALSE SPIDER MITE GENUS FROM MEXICO. (ACARINA:
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Fla Entomol 44(2):93-94,
 Jun 1961 420 F662
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9323-68
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PSEUDAULACASPIS PENTAGONA (TARGIONI) (HOMOPTERA:
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Fla Entomol 43(2):89-92, 9 REFS.
 Jun 1960 420 F662
Biological control (insects), Coccoidea, Florida.

9324-68
 THREE NEW MILLIPEDS OF THE GENUS CLEIDOGONA (CLEIDOGONI-
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Fla Entomol 44(1):35-39, 2 REFS.
 Mar 1961 420 F662
Diplopoda, Insect identification.

9325-68
 THE GENUS BREVIPALPUS IN MEXICO, PART I (ACARINA:
 TENUIPALPIDAE).
Fla Entomol 43(4):175-187, 4 REFS.
 Dec 1960 420 F662
Brevipalpus, Mexico, Mites.

9326-68
 A NEW SPECIES OF CHELOPISTES (MALLOPHAGA) FROM TEXAS AND
 MEXICO.
Fla Entomol 43(4):195-196, 1 REF.
 Dec 1960 420 F662
Chelopistes, Insect identification, Mallophaga, Mexico, Texas.

9327-68
 SOME EGGS OF INSECTS THAT CHANGE COLOR DURING INCUBATION.
Fla Entomol 45(2):81-87
 Jun 1962 420 F662
Homoptera, Insect eggs, Moths, Neuroptera.

9328-68
 NOTES ON THREE NORTH AMERICAN APHIDIDAE.
Fla Entomol 44(4):181-183, 9 REFS.
 Dec 1961 420 F662
Aphididae, Insect identification, North America.

9329-68
 THREE NEW GENERA AND SEVEN NEW SPECIES OF CHEYLETIDS
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Fla Entomol 45(3):129-137, 2 REFS.
 Sep 1962 420 F662
Cheyletidae, Insect identification.

9330-68
 THE GENUS BREVIPALPUS IN MEXICO, PART II (ACARINA:
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Fla Entomol 44(1):41-52, 3 REFS.
 Mar 1961 420 F662
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9331-68
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Fla Entomol 45(1):11-27, 7 REFS.
 Mar 1962 420 F662
Insect identification, Phytoseiidae.

9332-68
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Fla Entomol 44(4):167-179, 10 REFS.
 Dec 1961 420 F662
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Fla Entomol 45(3):143-148, 2 TABS.
 Sep 1962 420 F662
Aphididae, Insect identification.

9334-68
 NEARCTIC SPECIES OF THE DIADEGMA STENOSOMUS COMPLEX (HYME-
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Can Entomol 99(9):925-943 REF
 Sep 1967 421 C16
Ichneumonidae, Insect taxonomy, Nearctic Regions.
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9335-68
 A NEW SPECIES OF MALLOPHAGA FROM THE PEAFOWL.
Fla Entomol 44(3):117-118
 Sep 1961 420 F662
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9336-68
 A REVIEW OF THE GENUS CACTOPINUS, WITH DESCRIPTIONS OF TWO
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Can Entomol 99(9):917-925
 Sep 1967 421 C16
Insect taxonomy, Scolytidae.
Abstract

9337-68
 SOME EGGS OF MOTHS AMONG THE GEOMETRIDAE-LEPIDOPTERA.
Fla Entomol 45(3):109-119
 Sep 1962 420 F662
Geometridae, Insect eggs, Moths.

9338-68
 SYNOPSIS OF THE GENUS LYCTOCORIS IN NORTH AMERICA AND
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Can Entomol 99(8):807-814 REF
 Aug 1967 421 C16
Insect taxonomy, North America.
Abstract

9339-68
 THE TRUE IDENTITY OF THE BROOM BRUCID (COLEOPTERA) AND
 SYNONYMIC NOTES ON OTHER SPECIES OF BRUCHIDIUS.
Entomol Soc Amer Ann 56(6):795-798, 21 REFS.
 Nov 1963 420 EN82
Insect identification.

9340-68
 SOUTHEASTERN SPECIES OF THE MAYFLY SUBGENUS SERRATELLA
 (EPHEMEROPTERA: EPHEMERELLIDAE).
 R K Allen
Fla Entomol 44(4):149-158, 11 REFS.

BIBLIOGRAPHY

10 9341-68

Dec 1961 420 F662
Ephemeroptera, Insect identification.

9341-68
THE THORACIC MUSCULATURE OF THE INDIAN RAT FLEA, XENOPSYLLA CHEOFIS (SIPHONAPTERA).
Entomol Soc Amer Ann 54(3):387-397, 16 REFS.
May 1961 420 EN82
Insect morphology, Xenopsylla.

9342-68
OBSERVATIONS ON THE LARVAL FEEDING HABITS OF TWO SPECIES OF SITONA (CUCUOPTERA: CURCULONIDAE) IN SWEETCLOVER FIELDS.
D M Anderson H J Gorz
Entomol Soc Amer Ann 56(6):831-835, 11 REFS., 2 TABS.
Nov 1963 420 EN82
Insect behavior, Sitona.

9343-68
THE PROVENTRICULAR ARMATURE OF CURCULONIDAE (COLEOPTERA).
Entomol Soc Amer Ann 56(6):769-771, 4 REFS., 1 TAB.
Nov 1963 420 EN82
Curculionidae, Insect physiology.

9344-68
POPULATION STUDIES OF THE SPOTTED ALFALFA APHID IN ARIZONA IN RELATION TO TEMPERATURE AND RAINFALL.
O L Barnes
Entomol Soc Amer Ann 54(3):441-448
May 1961 420 EN82
Insect population, Rainfall, Temperature, Therioaphis.

9345-68
ANTENNAL ANOMALY OF A NEOTROPICAL BEE, AUGOCHLORA PURA MOSIERI COCKERELL, FOUND IN FLORIDA (HYMENOPTERA, APIDEA).
Fla Entomol 45(4):195, 3 REFS.
Dec 1962 420 F662
Augochlora, Bees, Insect abnormalities.

9346-68
AN OAK LEAF TIER, CROESIA SEMIPURPURANA (LEPIDOPTERA: TORTRICIDAE) IN CONNECTICUT.
Entomol Soc Amer Ann 56(6):741-744, 9 REFS., 1 TAB.
Nov 1963 420 EN82
Quercus, Tortricidae.

9347-68
DISTINGUISHING NULLIPAROUS FROM PARNOUS FEMALE CULEX TARSALIS BY EXAMINATION OF THE OVARIAN TRACHEATION.
R E Bellamy
Entomol Soc Amer Ann 54(3):448-451
May 1961 420 EN82
Culex, Reproductive organs.

9348-68
EFFECT OF TIME OF DAY ON SURVEYS OF PREDACEOUS INSECTS IN FIELD CROPS.
W P Boyer W H Whitcomb
Fla Entomol 45(3):121-128, 13 REFS., 2 TABS.
Sep 1962 420 F662
Circulifer, Conotrachelus, Field crops.

9349-68
FOOD OF CHIRONOMID LARVAE IN POLK COUNTY LAKES.
N Branch
Fla Entomol 42(2):49-62, 18 REFS., 3 TABS.
Jun 1959 420 F662
Culicidae, Insect control, Insect nutrition, Larvae, Florida.

9350-68
A MENDELIAN COLOR VARIANT IN THE GERMAN COCKROACH.
G S Burden
Entomol Soc Amer Ann 56(5):718-719, 4 REFS.
Sep 1963 420 EN82
Blattella germanica, Color, Insect genetics, Insect morphology.

9351-68
TESTS WITH FIVE SILICA DUSTS AGAINST GERMAN COCKROACHES.
G S Burden
Fla Entomol 43(3):99-102, 4 REFS., 2 TABS.
Sep 1960 420 F662
Blattella germanica, Dusting, Silica.

9352-68
FRASS STUDIES OF THE ARMYWORM, PSEUDALETIA UNIPUNCTA.
Entomol Soc Amer Ann 54(1):133-140, 14 REFS.
Jan 1961 420 EN82
Frass, Pseudaletia.

9353-68
CHRYSOPODIDAE ASSOCIATED WITH CITRUS IN FLORIDA.
Fla Entomol 42(1):21-29, 9 REFS.
Mar 1959 420 F662
Chrysopidae, Citrus, Neuroptera, Florida.

9354-68
PARASITISM OF PURPLE SCALE IN FLORIDA CITRUS GROVES.
D W Clancy
Fla Entomol 44(4):159-165, 15 REFS., 1 TAB.
Dec 1961 420 F662
Entomogenous fungi, Natural control (insects).

9355-68
A TICK OF THE ORNITHODOROS CAPENSIS GROUP ESTABLISHED ON BUSH KEY, DRY TORTUGAS, FLORIDA.
C M Clifford Jr
Fla Entomol 45(3):139-142, 11 REFS.
Sep 1962 420 F662
Insect ecology, Ixodidae, Ornithodoros, Florida.

9356-68
A SHORT-TERM SIDE EFFECTS OF THE INSECTICIDAL TREATMENT OF CLEAR LAKE, LAKE COUNTY, CALIFORNIA, IN 1962.
J D Conners
Entomol Soc Amer Ann 56(6):819-824, 8 REFS.
Nov 1963 420 EN82
Diptera, Parathion.

9357-68
THE INFLUENCE OF PLANT SPATIAL PATTERNS ON INSECT POPULATIONS.
Entomol Soc Amer Ann 54(1):61-69, 5 REFS.
Jan 1961 420 EN82
Brassica, Insects, Planting, Population statistics.

9358-68
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Entomol Soc Amer Ann 54(3):323-333, 17 REFS.
May 1961 420 EN82
Brassica, Population statistics.

9359-68
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Entomol Soc Amer Ann 54(1):76-86, 38 REFS.
Jan 1961 420 EN82
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9360-68
INTRASPECIFIC VARIATION IN PHYTOSIIDAE (ACARINA-MESOSTIGMATA).
H A Denmark
Fla Entomol 45(2):57-65, 14 REFS.
Jun 1962 420 F662
Insect identification, Phytoseiidae.

9361-68
THE DISTRIBUTION OF ZOROPTYPUS HUBBARDI (ZOROPTERA).
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Nov 1963 420 EN82
Insect ecology, Liposcelidae.

9362-68
FIELD TESTS OF DUSTS AND SPRAYS AGAINST GERMAN COCKROACHES.
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Fla Entomol 43(1):15-18, 6 REFS., 2 TABS.
Mar 1960 420 F662
Blattella germanica, Diazinon, Endosulfan, Malathion, Trichlorfon.

9363-68
FIELD EXPERIENCE ON SOME NEW MITICIDES DURING THE PAST TWELVE MONTHS ON CITRUS IN FLORIDA.
Fla Entomol 43(1):29-35, 4 TABS.
Mar 1960 420 F662
Citrus, Mites, Tetranychidae, Zineb.

9364-68
FIELD ACTIVITY STUDIES OF ADULT CULICOIDES FURENS.
Entomol Soc Amer Ann 54(2):149-156, 13 REFS.
Mar 1961 420 EN82
Culicoides, Insect behavior.

9365-68
TWO NEW CHIRODOMIDAE (DIPTERA) AND ADDITIONAL STATE RECORDS FROM FLORIDA.
Fla Entomol 44(3):125-128, 3 REFS.
Sep 1961 420 F662
Diptera, Insect identification.

BIBLIOGRAPHY

10 9389-68

9366-68
 FIVE NEW CHIRONOMIDAE (DIPTERA) FROM FLORIDA.
 Fla Entomol 45(2):89-92
 Jun 1962 420 F662
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9367-68
 MOSQUITO PENETRATION TESTS WITH LOUVER SCREENING.
 Fla Entomol 42(2):63-67, 5 REFS., 2 TABS.
 Jun 1959 420 F662
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9368-68
 BIOLOGY OF THE SOUTHWESTERN PINE BEETLE, DENDROCTONUS BARRERI.
 Entomol Soc Amer Ann 54(3):354-359, 2 REFS.
 May 1961 420 EN82
 Dendroctonus, *Pinus ponderosa*.

9369-68
 NEW INSECTICIDES FOR CONTROL OF SALT-MARSH MOSQUITOES.
 J B Gahan
 Fla Entomol 44(1):11-14, 4 REFS., 3 TABS.
 Mar 1961 420 F662
 Culicidae, Ddt, Fenthion.

9370-68
 RELATIVE SUSCEPTIBILITY OF FOUR SPECIES OF MOSQUITOES TO INSECTICIDE RESIDUES.
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 Fla Entomol 44(4):185-188, 2 REFS.
 Dec 1961 420 F662
 Culicidae, Ddt, Fenthion, Insecticide residues, Malathion.

9371-68
 EFFECTS OF A SEVERE WINTER ON SURVIVAL OF THE RECENTLY ESTABLISHED PARASITE OF THE RHODESGRASS SCALE IN FLORIDA.
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 Fla Entomol 44(3):115-116,
 Sep 1961 420 F662
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9372-68
 FIELD TESTS WITH NEW TICK REPELLENTS IN 1955, 1956 AND 1959.
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 Fla Entomol 43(4):189-194, 6 REFS., 2 TABS.
 Dec 1960 420 F662
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9373-68
 AUTOGENY IN PANAMANIAN PHLEBOTOMUS SANDFLIES (DIPTERA: PSYCHODIDAE).
 Entomol Soc Amer Ann 54(1):116-118, 5 REFS.
 Jan 1961 420 EN82
 Autogeny, Phlebotomus.

9374-68
 THE BREEDING PLACES OF PHLEBOTOMUS IN PANAMA (DIPTERA, PSYCHODIDAE).
 Entomol Soc Amer Ann 54(3):317-322, 31 REFS.
 May 1961 420 EN82
 Panama, Phlebotomus, Psychodidae.

9375-68
 A NEW SPECIES OF OECANTHUS FROM THE WEST INDIES (ORTHOPTERA, GRYLLIDAE).
 A B Gurney
 Fla Entomol 43(1):9-13, 9 REFS., 1 TAB.
 Mar 1960 420 F662
 Gryllidae, Insect identification.

9376-68
 SYNONYMY IN THE ANT GENUS MACROMISCHA ROGER.
 Fla Entomol 42(2):73-74
 Jun 1959 420 F662
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9377-68
 NOTES ON THE PHLEBOTOMUS OF PANAMA. XVI. (DIPTERA, PSYCHODIDAE). DESCRIPTIONS OF NEW AND LITTLE-KNOWN SPECIES FROM PANAMA AND CENTRAL AMERICA.
 M Hertig
 Entomol Soc Amer Ann 54(2):237-255, 15 REFS.
 Mar 1961 420 EN82
 Central America, Insect identification, Panama, Phlebotomus.

9378-68
 DISTRIBUTION OF EGGS OF THE POTATO LEAFHOPPER, EMPOASCA FABAE, ON SOLANUM PLANTS.
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Entomol Soc Amer Ann 56(6):737-740, 2 REFS., 7 TABS.
 Nov 1963 420 EN82
 Cicadellidae, Emposaca, Insect eggs.

9379-68
 MIGRATION AND DISPERSAL PATTERNS OF FE-59-LABELED LONE STAR TICKS.
 S O Hill F M Phillips
 J Econ Entomol 60(4):1029-1031
 15 Aug 1967 421 J822
 Amblyomma americanum, Insect migration, Radioisotopes.
 Abstract

9380-68
 NOTES ON THE DISTRIBUTION AND LIFE HISTORY OF ARCHIPSOCUS FRATER MOCKFORD (PSOCOPTERA: ARCHIPSOCIDAE).
 Fla Entomol 45(3):149-151, 3 REFS.
 Sep 1962 420 F662
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9381-68
 AN ANNOTATED LIST OF THE PSOCOPTERA OF THE FLINT-CHATTAHOOCHEE-APALACHICOLA REGION OF GEORGIA, FLORIDA, AND ALABAMA.
 Fla Entomol 44(3):129-140, 28 REFS.
 Sep 1961 420 F662
 Alabama, Georgia, Insect identification, Psocoptera, Florida.

9382-68
 PSEUDOSIBLING SPECIES IN THE GENUS PELTODYTES (CHOLEOPTERA: HALIPHIIDAE).
 Entomol Soc Amer Ann 54(2):214-222, 5 REFS.
 Mar 1961 420 EN82
 Peltodytes.

9383-68
 NEW NORTH AMERICAN TABANIDAE. XV. ADDITIONS TO RECORDS OF CHRYSOPS IN FLORIDA.
 C M Jones
 Fla Entomol 45(2):67-69, 7 REFS.
 Jun 1962 420 F662
 Insect identification, Florida, Tabanidae.

9384-68
 LABORATORY TESTS OF SELECTED HOUSE FLY REPELLENTS.
 G C LaBrecque J B Gahan
 Fla Entomol 44(3):123-124
 Sep 1961 420 F662
 Deet, Insecticide resistant insects, *Musca domestica*.

9385-68
 DESCRIPTIONS OF FOUR NEW SPECIES OF CULEX FROM PANAMA (DIPTERA: CULICIDAE).
 E Mendez
 Entomol Soc Amer Ann 54(1):1-4, 1 REF.
 Jan 1961 420 EN82
 Culex, Culicidae, Insect identification, Panama.

9386-68
 NEW SPECIES OF FLEAS (SIPHONAPTURA) FROM PANAMA.
 E Mendez
 Entomol Soc Amer Ann 54(2):255-273, 3 REFS.
 Mar 1961 420 EN82
 Insect taxonomy, Panama, Siphonaptera.

9387-68
 EFFECTS OF POPULATION DENSITY ON PRODENIA LITURA (LEPIDOPTERA: NOCTUIDAE).
 M A Moussa
 Entomol Soc Amer Ann 54(2):145-149, 15 REFS.
 Mar 1961 420 EN82
 Insect biology, Population statistics, Prodenia.

9388-68
 BIOLOGICAL, CHEMICAL, AND ECOLOGICAL STUDIES ON THE PREDATORY THRIPS ALEURODOTHrips FASCIAPENNIS IN FLORIDA CITRUS GROVES.
 M H Mumma D W Clancy
 Entomol Soc Amer Ann 56(5):709-712, 7 REFS., 4 TABS.
 Sep 1963 420 EN82
 Chrysomphalus, Insect ecology, Predaceous insects.

9389-68
 MITE CONTROL IN REDWORM BEDS.
 Fla Entomol 42(1):31-34
 Mar 1959 420 F662
 Malathion, Mites, Nematodes, Parathion.

BIBLIOGRAPHY

10 9390-68

9390-68
THE BIOLOGY AND ECOLOGY OF GRANARY MITES OF THE PACIFIC NORTHWEST: I. ECOLOGICAL CONSIDERATIONS.
Entomol Soc Amer Ann 54(2):169-174, 23 REFS.
Mar 1961 420 EN82
Insect biology, Insect ecology.

9391-68
FUMIGATION OF BUILDINGS TO CONTROL THE DRY-WOOD TERMITE, CRYPTOTERMES BREVIS.
A K Ota
J Sci Food Agr 12(1):I-55-4
Jan 1961 382 S012
Fumigation, Methyl bromide, Termites.

9392-68
NOTES ON THE DISTRIBUTION AND ECONOMIC IMPORTANCE OF TOMASPIS BICINCTA (SAY).
B C Pass
Fla Entomol 44(4):189, 7 REFS.
Dec 1961 420 F662
Insect ecology.

9393-68
WINTER-INSECT LIGHT-TRAPPING AT THE ARCHBOLD BIOLOGICAL STATION, FLORIDA.
Fla Entomol 45(4):175-190
Dec 1962 420 F662
Aphididae, Coleoptera, Homoptera, Light traps.

9394-68
A NEW SPECIES OF PTERONYSSUS FROM WOODPECKERS IN TEXAS (ACARINA: ANAGEOIDEA: PTEROLICHIDAE).
M A Price
Entomol Soc Amer Ann 56(6):789-792, 10 REFS.
Nov 1963 420 EN82
Insect identification.

9395-68
A NEW SPECIES OF DAMSELFLY FROM ST. LUCIA, BRITISH WEST INDIES (ODONATA: PROTONEURIDAE).
Fla Entomol 44(3):119-121,
Sep 1961 420 F662
Insect identification, Odonata.

9396-68
A NEW SPECIES OF SCHILDIA FROM JAMAICA (DIPTERA: ASTILIDAE).
Fla Entomol 45(4):191-194
Dec 1962 420 F662
Asilidae, Diptera, Insect identification.

9397-68
A GENERIC KEY TO THE NYMPHS OF NORTH AMERICA LYGAEIDAE (HEMIPTERA-HETEROPTERA).
J A Slater
Entomol Soc Amer Ann 54(3):333-349, 9 REFS.
May 1961 420 EN82
Lygaeidae, Nymphs.

9398-68
THE EFFECT OF AGE AND TIME OF DAY ON THE AVIDITY OF AEDES AEGYPTI.
C N Smith
Fla Entomol 45(2):93-94, 1 TAB.
Jun 1962 420 F662
Aedes aegypti, Insect repellents.

9399-68
A NEW SPECIES OF MOTH INJURIOUS TO PINE (LEPIDOPTERA: BLASTOBASIDAE).
Fla Entomol 43(3):115-117
Sep 1960 420 F662
Blastobasidae, Moths, Pinus.

9400-68
THE EFFECT OF TEMPERATURE AND RAINFALL ON THE SPRING EMERGENCE PATTERN OF THE CARROT BEETLE, LIGYRUS GIBBOSUS.
Entomol Soc Amer Ann 56(6):826-829, 5 REFS.
Nov 1963 420 EN82
Insect morphology.

9401-68
ON THE PURPORTED SYNONYMY OF PICNA REIGHARDI (WOLCOTT, 1902) WITH PIONA ROTUNDA (KRAMER, 1879) (ACARINA: PIONIDAE).
Entomol Soc Amer Ann 54(1):90-92, 9 REFS.
Jan 1961 420 EN82
Insect taxonomy, Piona.

9402-68
SOME OBSERVATIONS ON THE BIOLOGY OF ANCHYLOPERA PLATANANA CLEMENS (LEPIDOPTERA, OLETHREUTIDAE IN FLORIDA.
Fla Entomol 43(2):81-87, 5 REFS., 2 TABS.
Jun 1960 420 F662
Insect biology, Olethreutidae, Florida.

9403-68
NEW UNITED STATES RECORDS IN BRUCHIDAE, WITH NOTES ON HOST PLANTS AND REARING PROCEDURES (COLEOPTERA).
Entomol Soc Amer Ann 54(2):291-298, 29 REFS.
Mar 1961 420 EN82
Bruchidae, Insect rearing, United States.

9404-68
SUPPRESSION OF THE GENUS ROPHLISA CASEY WITH NOTES ON THE UNITED STATES SPECIES OF TRIGONOPELASTES BURMEISTER (COLEOPTERA: SCARABAEIDAE).
Fla Entomol 43(3):139-145, 5 REFS.
Sep 1960 420 F662
Insect taxonomy, Scarabaeidae.

9405-68
SOME TYPES OF EGGS DEPOSITED BY MOTHS, HETEROCEP-LEPIDOPTERA.
Fla Entomol 44(3):107-114
Sep 1961 420 F662
Insect eggs, Moths.

9406-68
NOTES ON A PARASITE OF THE CITRUS ROOT WEEVIL, (PACHNAEUS LITUS (GERM.).
Fla Entomol 43(4):197
Dec 1960 420 F662
Biological control (insects), Parasitism.

9407-68
A CONTRIBUTION TO THE HIGHER CLASSIFICATION OF THE MEGALOPTERAE (HEMIPTERA: ILYGAEIDAE).
M H Sweet
Entomol Soc Amer Ann 54(2):203-209, 19 REFS.
Mar 1961 420 EN82
Insect taxonomy, Lygaeidae, Megalonotinae.

9408-68
ERIOPHYID MITE COLLECTIONS IN THE TEXAS PANHANDLE.
Entomol Soc Amer Ann 56(6):879, 4 REFS., 1 TAB.
Nov 1963 420 EN82
Eriophyidae, Mosaic (wheat).

9409-68
THE TRUE GOMPHUS CONSANGUINIS SELYS (ODONATA:GOMPHIDAE).
R P Trogon
Fla Entomol 45(1):29-41, 8 REFS.
Mar 1962 420 F662
Insect identification, Odonata.

9410-68
THE EXTERNAL ANATOMY OF THE SILVERFISH CTENOLEPISMA CAMP-BELLI AND LEPISSIMA SACCHARINUM (THYSANURA: LEPIISMATIDAE).
Entomol Soc Amer Ann 54(2):177-196, 27 REFS.
Mar 1961 420 EN82
Insect anatomy.

9411-68
NEW RECORDS OF ORTHOPTERA AND DERMAPTERA FROM THE UNITED STATES.
Fla Entomol 42(2):75-80
Jun 1959 420 F662
Blattidae, Dermaptera, Insect identification.

9412-68
A NOTE ON SEIOPTERA IMPORTANS (DIPTERA: OTITIDAE).
Entomol Soc Amer Ann 56(6):878, 2 REFS.
Nov 1963 420 EN82
Insect identification.

9413-68
COLLEMBOLA: PICTORIAL KEYS TO THE NEARCTIC GENERA.
Entomol Soc Amer Ann 54(1):104-113, 5 REFS.
Jan 1961 420 EN82
Collembola.

9414-68
NEW NORTH AMERICAN TABANIDAE. XII. A NEW VARIETY OF TABANUS IMMITANS WALKER.
Fla Entomol 43(4):171-174, 3 REFS.
Dec 1960 420 F662
Insect identification, Tabanidae.

BIBLIOGRAPHY

10 9438-68

9415-68 AN ECOPHYSIOLOGICAL STUDY OF HIPPODAMIA QUINQUESIGNATA PUNCTULATA LECONTE (COLEOPTERA: COCCINELLIDAE). Diss Abstr Sect B 27(11):3980H-3981B May 1967 Z5055.U49D53 Aphidiidae, Hibernation, Insect behavior, Insect ecology, Insect nutrition, Insect physiology, Insect respiration, Predaceous insects.

9416-68 A TAXONOMIC REVISION OF THE GENUS STATOR (COLEOPTERA: BRUCHIDAE). Entomol Soc Amer Ann 56(6):860-865, 11 REFS. Nov 1963 420 EN82 Bruchidae, Insect identification.

9417-68 EUPALOPSIS AND EUFALOSELLID MITES (ACARINA: STIGMAEIDAE, EUFALOSELLIDAE). Fla Entomol 43(3):119-138, 9 REFS. Sep 1960 420 F662 Mites.

9418-68 THE DIMARELLINI OF MEXICO (NEUROPTERA: MYRMELEONTIDAE) WITH THE DESCRIPTIONS OF TWO NEW SPECIES OF DIMARELLA. Entomol Soc Amer Ann 56(6):810-816, 4 REFS. Nov 1963 420 EN82 Insect identification.

9419-68 LIFE HISTORY OF LYGUS HESPERUS (:HEMIPTERA: MIRIDAE) IN THE LABORATORY. Entomol Soc Amer Ann 56(6):865-867, 3 REFS., 3 TAHS. Nov 1963 420 EN82 Hemiptera, Insect morphology.

9420-68 CLASSIFICATION OF AEDES BY NUMERICAL TAXONOMIC METHODS (DIPTERA: CULICIDAE). Entomol Soc Amer Ann 56(6):798-804, 23 REFS., 3 TAHS. Nov 1963 420 EN82 Aedes, Insect taxonomy.

9421-68 MORPHOLOGY AND PHYLOGENY OF THE REDUVIOIDAE (HEMIPTERA: HETEROPTERA). PART II. WING VENATION. Entomol Soc Amer Ann 54(3):349-354, 28 REFS. May 1967 420 EN82 Insect morphology, Life cycle.

9422-68 THE LIFE HISTORIES OF BANASA DIMIDIATA AND HANASA CALVA (HEMIPTERA: PENTATOMIDAE). Entomol Soc Amer Ann 56(3):687-693, 8 REFS. Sep 1963 420 EN82 Insect morphology, Pentatomidae.

9423-68 AN ANNOTATED LIST OF THE HORSE FLIES OF FLORIDA AND AN ILLUSTRATED KEY TO THE GENERA (DIPTERA: TABANIDAE). Fla Entomol 44(2):69-84, 55 REFS. Jun 1961 420 F662 Insect identification, Florida, Tabanidae.

9424-68 NEPYTIA SEMICLUSARIA (WLK.) AS A SEPOLIATOR OF PINE (LEPIDOPTERA: GEOMETRIDAE). Fla Entomol 43(4):205-206, 3 REFS. Dec 1960 420 F662 Geometridae, Pinus.

9425-68 NEW PHYTOSEIIDAE (ACARINA: MESOSTIGMATA) FROM FLORIDA. Fla Entomol 45(1):1-10, 2 REFS. Mar 1962 420 F662 Insect identification, Phytoseiidae, Florida.

9426-68 A SYNECOLOGICAL STUDY OF THE EFFECT OF THE IMPORTED FIRE ANT ERADICATION PROGRAM. Fla Entomol 45(4):161-173, 4 REFS., 10 TAHS. Dec 1962 420 F662 Insect control, Insect ecology, Solenopsis.

9427-68 BIOLOGICAL AND ECOLOGICAL OBSERVATIONS ON MYDAS MACULIVENTRIS WESTWOOD (DIPTERA: MYDAIDAE) AS A PREDATOR OF WHITE GRUBS. Fla Entomol 42(1):35-37, 8 REFS.

9428-68 THE TAXONOMY AND CALLING SONGS OF UNITED STATES TREE CRICKETS (ORTHOPTERA: GRYLLIDAE: OECANTHUS). Entomol Soc Amer Ann Nov 1963 420 EN82 Insect taxonomy, Oecanthinae, Stridulation.

9429-68 A REVISION OF THE GENUS LEPTOREMUS (COLEOPTERA: PEDILIDAE). Entomol Soc Amer Ann 54(1):73-75, 3 REFS. Jan 1961 420 EN82 Insect taxonomy.

9430-68 A NEW SPECIES OF XENOTARSONEMUS FROM FLORIDA. Fla Entomol 43(1):23-27, 2 REFS., Mar 1960 420 F662 Insect identification, Mites.

9431-68 FRINGE POPULATIONS OF THE EUROPEAN CORN HOPPER, PYRAUSTA NUHILALIS: THEIR CHARACTERISTICS AND PROBLEMS. Entomol Soc Amer Ann 54(3):378-387, 18 REFS. May 1961 420 EN82 Insect population, Pyrausta.

9432-68 ECOLOGY OF INSECT SWARMS. IV. COMPARISON OF THE SWARMS OF TWO CLOSELY RELATED MIDGE, ANARETE JOHNSONI AND A. SP. NEAR JOHNSONI (DIPTERA: CECIDOMYIIDAE). Entomol Soc Amer Ann 56(6):748-751, 5 REFS. Nov 1963 420 EN82 Cecidomyiidae, Insect ecology.

9433-68 HYDROPTILIDAE (TRICHOPTERA) OF FLORIDA. Fla Entomol 45(3):153-155, 7 REFS. Sep 1962 420 F662 Insect ecology, Florida.

9434-68 A REVISION OF THE NEOTROPICAL GENUS ERILOPHODES (LEPIDOPTERA: GEMETRIDAE). Entomol Soc Amer Ann 56(6):835-844, 8 REFS. Nov 1963 420 EN82 Insect identification.

9435-68 STUDIES OF POPULATIONS OF ADULT AND IMMATURE (CULICOIDES SANGUISUGA (DIPTERA: CERATOPOGONIDAE). T. Watthews Entomol Soc Amer Ann 56(6):728-732, 17 REFS., 4 TAHS. Nov 1963 420 EN82 Culicidae, Insect behavior.

9436-68 WATER MITES OF THE GENUS FELTRIA IN CENTRAL AND WESTERN UNITED STATES (ACARINA: FELTRIIDAE). Entomol Soc Amer Ann 54(1):118-133, 8 REFS. Jan 1961 420 EN82 Insect identification, Western United States.

9437-68 ERYTHEMIS SIMPLICICOLLIS (SAY), A DRAGONFLY PREDATOR OF THE HOLLOWWORM MOTH. W H Whitcomb Fla Entomol 44(2):95-97, 11 REFS. Jun 1961 420 F662 Heliothis zea, Odonata, Parasitism.

9438-68 SUSCEPTIBILITY OF ADULT HORN FLY AND STAHL FLY TO INSECTICIDES. J Sci Food Agr 15(12):II-302-1 Dec 1964 382 S012 Haematobia, Insecticides, Mortality, Stomoxys.

Physiology and Biochemistry

BIBLIOGRAPHY

10 9439-68

9439-68
 NEW TECHNIQUES FOR SCREENING COCKROACH REPELLENTS.
 J Sci Food Agr 12(3):I-125-3
 Mar 1961 382 S012
 Benzene hexachloride, Blattidae, Insect repellents.

9440-68
 EFFECT OF THALIDOMIDE ON GROWTH AND REPRODUCTION OF PHORMIA REGINA.
 J Sci Food Agr 15(7):II-21-4
 Jul 1964 382 S012
 Insect morphology, Phormia, Reproduction, Thalidomide.

9441-68
 SCREENING SOIL INSECTICIDES AGAINST WHITE GRUBS.
 J Sci Food Agr 12(3):I-125-4
 Mar 1961 382 S012
 Aldrin, Benzene hexachloride, Dieldrin, White grubs.

9442-68
 2-INDAZOLIDINONE AS AN INSECT GROWTH-INHIBITOR AND CHEMO-STERILANT.
 J Sci Food Agr 15(12):II-319-3
 Dec 1964 382 S012
 Chemicc control (insects), Chemosterilants, Drosophila melanogaster, Heliothis zea, Musca domestica, Oncopeltus.

9443-68
 LOSS OF ACTIVITY OF CHLORINATED HYDROCARBON INSECTICIDES IN SOIL AS MEASURED AGAINST THE EYE GNAT, HIPPELATES COLLIUSOR.
 J Sci Food Agr 12(3):I-125-5
 Mar 1961 382 S012
 Chloropidae, Ddt, Dieldrin, Endrin, SD 4402.

9444-68
 THE EFFECT OF EXPOSURE TO DRY CONDITIONS ON THE EGGS OF AENOCRAMIA VARIA SACCHARINA (HOMOPTERA: CERCOPIDAE).
 Entomol Soc Amer Ann 56(5):719-720, 2 REFS.
 Sep 1963 420 EN82
 Cercopidae, Drying, Insect eggs.

9445-68
 TOXICOLOGICAL STUDIES ON A BEETLE, ALPHITOBius LAEVIGATUS (F.). V. JCINT ACTIONS OF SOME PAIRS OF LIKE AND UNLIKE TOXICANIS.
 J Sci Food Agr 15(9):II-126-2
 Sep 1964 382 S012
 Alphitobius, Chemical structure, Ddt, Dieldrin, Insecticide synergists, Mathematical analysis.

9446-68
 PRODUCTION OF METABOLIC DEFICIENCIES AS POSSIBLE APPROACH TO INSECT CONTROL.
 J Sci Food Agr 15(7):II-20-6, 33 REFS.
 Jul 1964 382 S012
 Antimetabolites, Insect control, Insect metabolism.

9447-68
 SOLUBILITY OF CARBON-14 DDT IN WATER.
 F Acree Jr M K Corbett
 J Sci Food Agr 12(1):I-55-5
 Jan 1961 382 S012
 Biological assay, Carbon, Culicidae, Ddt.

9448-68
 STERILIZATION OF THE FACE FLY, MUSCA AUTUMNALIS WITH APHOLATE AND TEPA.
 T R Adkins Jr
 J Sci Food Agr 15(12):II-320-1
 Dec 1964 382 S012
 Apholate, Chemosterilants, Musca, Tepa.

9449-68
 STRIDULATING ORGANS IN THREE SOUTHEASTERN IPS BARK BEETLES.
 Fla Entomol 45(1):43-44
 Mar 1962 420 F662
 Insect biology, Scolytidae, Stridulation.

9450-68
 A BIOASSAY FOR DETECTING COMPOUNDS WHICH STIMULATE OR DETER FEEDING BY THE SWEETCLOVER WEEVIL.
 W R Akeson G R Manglitz H J Gorz F A Haskins
 J Econ Entomol 60 (4)01082-1084
 15 Aug 1967 421 J822
 Attractants, Biological assay, Chloroform, Insect nutrition, Melilotus infesta, Plant pest resistance, Sitona cylindricollis.
 Abstract

9451-68
 A NEW SPECIES OF DIROPHANES (HYMENOPTERA: ICHNEUMONIDAE) PARASITIC ON CHORISTONEURA PINUS IN NORTHERN MICHIGAN.
 D C Allen
 Can Entomol 99(8) 0893-895
 Aug 1967 421 C16
 Choristoneura pinus, Dirophanes, Parasitic insects.
 Abstract

9452-68
 MECHANISM OF PATHOGENICITY OF PSEUDOMONAS IN THE HOUSE FLY.
 S V Amonkar G P Kalle K K Nair
 J Invertebrate Pathol 9(2), 235-240. REF.
 Jun 1967 421 J826
 Bacterial diseases (insects), Mortality, Musca domestica, Pseudomonas septica, Toxins.
 Abstract

9453-68
 COMPARATIVE TOXICITY OF THE PARASPORAL INCLUSIONS OF THREE ENTOMOCEROUS BACTERIA.
 T A Angus
 J Invertebrate Pathol 9(2), 256-260. REF.
 Jun 1967 421 J826
 Bacillus thuringiensis, Bombyx mori, Entomogenous bacteria, Toxicity.
 Abstract

9454-68
 INFLUENCE OF POSITION AND SIZE OF HOST SHELTER ON HOST-SEARCHING BY ITOPLECTIS CONQUISITOR (HYMENOPTERA: ICHNEUMONIDAE).
 A P Arthur
 Can Entomol 99(8) 0877-886
 Aug 1967 421 C16
 Host specificity, Itoplectis conqueritor, Parasitic insects.
 Abstract

9455-68
 SOD WEBWORM PARASITES IN ILLINOIS.
 A C Banerjee
 J Econ Entomol 60 (4) 01173-1174
 15 Aug 1967 421 J822
 Crambus, Insect rearing, Parasitism.

9456-68
 THE LIFE CYCLE OF THE SCRUB TYPHUS CHIGGER MITE, TROMBICULA AKAMUSHI.
 H C Barnett
 Entomol Soc Amer Ann 54(2):196-203, 19 REFS.
 Mar 1961 420 EN82
 Metamorphosis.

9457-68
 COCCOPHAGUS BASALIS (HYMENOPTERA: APHELINIDAE): ITS INTRODUCTION INTO CALIFORNIA WITH STUDIES OF ITS BIOLOGY.
 B R Bartlett T W Fisher
 Entomol Soc Amer Ann 54(2):227-236, 10 REFS.
 Mar 1961 420 EN82
 California, Insect biology.

9458-68
 A SOIL-WASH PUPARIA EXTRACTOR FOR BRACHYCEROUS DIPTERA.
 E C Bay
 J Econ Entomol 60 (4) 01142-1145
 15 Aug 1967 421 J822
 Diptera, Hippelates, Pupal cases, Soils.
 Abstract

9459-68
 BEHAVIORAL RESPONSES OF THE SMALLER EUROPEAN ELM BARK BEETLE, SCOLYTUS MULTISTRIATUS (COLEOPTERA: SCOLYTIDAE).
 S D Beck D M Norris
 Entomol Soc Amer Ann 56(6):764-768, 17 REFS.
 Nov 1963 420 EN82
 Insect behavior, Scolytus.

9460-68
 THE ANATOMY OF THE NEUROENDOCRINE COMPLEX OF THE EUROPEAN CORN BORER, OSTRINIA NUBILALIS, AND ITS RELATION TO DIAPAUSE.
 S D Beck
 Entomol Soc Amer Ann 56(6):723-727, 23 REFS., 2 TABS.
 Nov 1963 420 EN82
 Diapause, Insect anatomy, Ostrinia.

9461-68
 MATHEMATICAL DESCRIPTION OF THE STERILE MALE PRINCIPLE.
 A A Berryman
 Can Entomol 99(8) 0858-865

BIBLIOGRAPHY

10 9482-68

Aug 1967 421 C16
 Insect control, Insect populations, Mathematical analysis, Sterility.
 Abstract

9462-68
 QUANTITATIVE EFFECTS OF TEPA, METEPA AND APHOLATE ON STERILIZATION OF MALE HOUSEFLIES.
 A B Borkovec
 J Sci Food Agr 15(12):II-319-2
 Dec 1964 382 S012
 Apholate, Chemosterilants, Metepa, *Musca domestica*, Tepa.

9463-68
 BIOLOGY OF LABORATORY-REARED CORN LEAF APHIDS, RHOPALOSIPHUM MAIDIS (HOMOPTERA, APHIDIDAE).
 T F Branson E E Ortman
 Entomol Soc Amer Ann 60 (5), 1118-1119
 Sep 1967 420 EN82
 Insect rearing, *Rhopalosiphum maidis*.

9464-68
 WEIGHT AND DEVELOPMENT TIME OF DIFFERENT STADIA OF MOSQUITOES REARED AT VARIOUS CONSTANT TEMPERATURES.
 R A Brust
 Can Entomol 99(9) 0986-993
 Sep 1967 421 C16
 Aedes nigromaculatus, Aedes vexans, Culiseta inornata, Insect morphology, Insect rearing, Temperature.
 Abstract

9465-68
 OBSERVATIONS ON THE BIOLOGY OF PLAGIOPNATUS CHRYSANTHEMI (HEMIPTERA: MIRIDAE), A PEST OF BIRDSFOOT TREFOIL IN ONTARIO.
 Entomol Soc Amer Ann 56(6):804-809, 9 REFS., 3 TABS.
 Nov 1963 420 EN82
 Birdsfoot trefoil, Insect biology.

9466-68
 INVESTIGATIONS ON THE REACTION OF IPS SEXDENTATUS BOERNERI TO THE TERPENE FUMES OF VARIOUS CONIFERS.) FR (C Chararas
 Paris Acad Agr France Compt Rend Seances Hebd 53(3), 226-231.
 1967 14 F215BC
 Coniferae, Fumes, *Ips sexdentatus*, Terpenes.

9467-68
 A STUDY OF POSSIBLE CORRELATIONS AMONG SOME OF THE ECONOMIC ATTRIBUTES OF THE LAC INSECT, KERRIA LACCA (KERR).
 N S Chauhan
 Indian J Entomol 29(2) 0145-148
 Jun 1967 420 IN23
 Correlation, Crop yields, Kerria lacca, Lac, *Moghania macrophylla*, Resins.

9468-68
 SURVIVAL OF ISOLATED INSECT TISSUES FOLLOWING RADIATION.
 Entomol Soc Amer Ann 56(5):720-721
 Sep 1963 420 EN82
 Blattidae, Radiation.

9469-68
 THE MORPHOLOGY OF THE MOUTHPARTS OF TETRANYCHUS ATLANTICUS AND OBSERVATIONS ON FEEDING BY THIS MITE ON SOYBEANS.
 W A Connell
 Entomol Soc Amer Ann 56(6):733-736, 10 REFS., 1 TAB.
 Nov 1963 420 EN82
 Insect morphology, Mouth parts, Soybeans, Tetranychidae.

9470-68
 THE IMMATURE STAGES OF THE ARCTOPSYCHINAE OCCURRING IN EASTERN NORTH AMERICA (TRICHOPTERA: HYDROPSYCHIDAE).
 Entomol Soc Amer Ann 54(1):5-11, 11 REFS.
 Jan 1961 420 EN82
 Metamorphosis, North America.

9471-68
 EXPOSURE OF THE HOUSE FLY TO SELECTION BY BACILLUS THURINGIENSIS.
 Entomol Soc Amer Ann 56(6):878-879, 3 REFS.
 Nov 1963 420 EN82
 Insect diseases, *Musca domestica*.

9472-68
 A PATHOGENIC CONDITION IN A GALL MIDGE (HETEROPEZA).
 S J Counce B Burkholder
 J Invertebrate Pathol 9(2), 287-288.
 Jun 1967 421 J826

9473-68
 Heteropeza, Insect diseases, Insect mutation.

9474-68
 PERSISTENCE OF TEPA IN FALL ARMYWORM MOTHS.
 H C Cox J R Young M C Bowman
 J Econ Entomol 60 (4) 01111-1115
 15 Aug 1967 421 J822
 Chemosterilants, Persistence, *Spodoptera frugiperda*, Sterilization, Tepa.
 Abstract

9475-68
 EMERGENCE OF OVERWINTERED BOLL WEEVILS FROM HIBERNATION SITES NEAR WACO, TEXAS.
 J W Davis C B Cowan C R Paredes
 J Econ Entomol 60 (4) 01102-1104
 15 Aug 1967 421 J822
Anthonomus grandis, Hibernation, Texas.
 Abstract

9476-68
 LARVAL NUTRITION IN AROTIS ORTHOGONIA (LEPIDOPTERA: PHALANIDAE): DIGESTIVE ENZYMES.
 K R Depner
 Entomol Soc Amer Ann 54(1):86-89, 10 REFS.
 Jan 1961 420 EN82
Agrotis, Insect nutrition, Larvae.

9477-68
 THE INCORPORATION OF 2-C14-MEVALONATE INTO HOUSE FLY LIPIDS.
 R C Dutkay W E Robbins
 Entomol Soc Amer Ann 54(1):114-116, 11 REFS.
 Jun 1961 420 EN82
 Lipids, *Musca domestica*.

9478-68
 PATHOLOGICAL CHANGES FOLLOWING SALIVARY DUCT LIGATION IN COCKROACHES.
 J S Edwards J Koral G Rudy
 J Invertebrate Pathol 9(2), 160-163.
 Jun 1967 421 J826
Blabera gigantea, Cysts, Encapsulation, *Gramphodrina portentosa*, Melanization, *Periplaneta americana*, Salivary glands, Sutures.
 Abstract

9479-68
 THE REPRODUCTIVE SYSTEM OF SOME FLORIDA MOSQUITOES. II. THE MALE ACCESSORY GLANDS AND THEIR ROLE.
 Entomol Soc Amer Ann 54(3):430-433
 May 1961 420 EN82
 Aedes, Culicidae, Psorophora, Reproductive organs, Florida.

9480-68
 THE REPRODUCTIVE SYSTEM OF SOME FLORIDA MOSQUITOES. I. THE MALE REPRODUCTIVE TRACT.
 Entomol Soc Amer Ann 54(3):397-401, 13 REFS.
 May 1961 420 EN82
 Culicidae, Reproductive organs, Florida.

9481-68
 FLIGHT ACTIVITY OF THE CORN LEAF APHID IN WISCONSIN AS DETERMINED BY YELLOW PAN TRAP COLLECTIONS.
 D A Evans J T Medler
 J Econ Entomol 60 (4) 01088-1091 REF
 15 Aug 1967 421 J822
 Insect collecting equipment, Insect flight, Insect traps, *Rhopalosiphum maidis*.
 Abstract

9482-68
 COMPARISON OF INSECTICIDES, INSECT PATHOGENS AND INSECTICIDE-PATHOGEN COMBINATIONS FOR CONTROL OF CABBAGE LOOPER, TRICHOPLUSIA NI.
 Fla Entomol 43(2):65-68, 12 REFS.
 Jun 1960 420 F662
 Azinphosmethyl, Mevinphos, Polyhedroses, Toxaphene, Trichoplusia.

9483-68
 REARING THE NAVEL ORANGEWORM IN THE LABORATORY.
 G L Finney D Brinkman
 J Econ Entomol 60 (4) 01109-1111
 15 Aug 1967 421 J822
 Insect rearing, *Paramyelois transitella*.
 Abstract

BIBLIOGRAPHY

10 9483-68

9483-68
 EFFECTS OF PARENTAL AGE ON THE LIFE CYCLE OF DROSOPHILA MELANOGASTER.
 Entomol Soc Amer Ann 54 (3): 412-416
 May 1961 420 EN82
Drosophila melanogaster, Metamorphosis.

9484-68
 THE NUTRITIONAL REQUIREMENTS OF TERMITES IN AXENIC CULTURES.
 2. STUDIES ON THE EFFECTIVENESS OF ANTIBIOTICS IN THE STERILIZATION OF WORKERS OF RETICULITERMES FLAVIPES.
 S Friedman
 Entomol Soc Amer Ann 56 (5): 706-708, 2 REFS., 1 TAB.
 Sep 1963 420 EN82
Insect nutrition, Termites.

9485-68
 THE NUTRITIONAL REQUIREMENTS OF TERMITES IN AXENIC CULTURES.
 I. STERILIZATION OF EGGS OF RETICULITERMES FLAVIPES AND THE REQUIREMENTS OF FIRST-INSTAR NYMPHS.
 S Friedman
 Entomol Soc Amer Ann 56 (5): 703-706, 5 REFS.
 Sep 1963 420 EN82
Insect nutrition.

9486-68
 INFECTIVITY TESTS UTILIZING BACILLUS THURINGIENSIS AGAINST SEVERAL SPECIES OF INSECTS.
 R D Frye
 J Invertebrate Pathol 9 (2), 284-287.
 Jun 1967 421 J826
Bacillus thuringiensis, Coleoptera, Hymenoptera, Lepidoptera, Mortality.
 When percent mortality in both treated and untreated parts of the tests were considered *B. thuringiensis* was effective against the Lepidoptera.

9487-68
 A TECHNIQUE FOR REARING LARVAE OF THE SMALLER EUROPEAN ELM BARK BEETLE ON AN ARTIFICIAL MEDIUM.
 J R Galford
 J Econ Entomol 60 (4) 01192
 15 Aug 1967 421 J822
Culture media, Insect rearing, Scolytus multistriatus.

9488-68
 SENSITIVITY TO THE SOLUBLE HEAT-STABLE TOXIN OF BACILLUS THURINGIENSIS OF STRAINS OF MUSCA DOMESTICA TOLERANT TO CHEMICAL INSECTICIDES.
 P F Galichet
 J Invertebrate Pathol 9 (2), 261-262.
 Jun 1967 421 J826
Bacillus thuringiensis, DDT, Insecticide resistant insects, Lindane, *Musca domestica*, Toxins.

9489-68
 EFFECTS OF GAMMA RADIATION ON FERTILITY, MATING, AND LONGEVITY OF MALES OF THE ORIENTAL FRUIT MOTH, GRAPHOLITHA MOLESTA (LEPIDOPTERA: TORTRICIDAE).
 J A George
 Can Entomol 99 (8) 0850-857
 Aug 1967 421 C16
Fertility, Gamma rays, Grapholitha molesta, Longevity.
 Abstract

9490-68
 APHYTIS RIADI, A SYNONYM OF A CHILENSIS (HYMENOPTERA, APHELINIDAE).
 U Gerson
 Entomol Soc Amer Ann 60 (5), 1116-1118
 Sep 1967 420 EN82
Aphytis chilensis, *Aphytis riadi*, Parasitism, *Parlatoria pergandei*.

9491-68
 THE ESTIMATION AND EXTRACTION OF ACETYLCHOLINE FROM NERVOUS TISSUE OF THE AMERICAN COCKROACH.
 J Gilleberg
 Entomol Soc Amer Ann 54 (1): 140-141, 3 REFS.
 Jan 1961 420 EN82
Acetylcholine, Nervous system, Periplaneta.

9492-68
 ELECTRON MICROSCOPIC EVIDENCE FOR WOUND-TUMOR VIRUS ACCUMULATION IN VARIOUS ORGANS OF AN INEFFICIENT LEAFHOPPER VECTOR, AGALLIOPSIS NOVELLA.
 R R Granados H Hirumi K Maramorosch
 J Invertebrate Pathol 9 (2), 147-159. REF.
 Jun 1967 421 J826
Agalliopsis novella, Electron microscopy, Insect vectors,

Virus diseases (insects), Wound-tumor virus.
 Abstract

9493-68
 RESISTANCE TO ALDRIN IN THE RICE WATER WEEVIL IN LOUISIANA.
 J B Graves T R Everett R D Hendrick
 J Econ Entomol 60 (4) 01155-1157, REF
 15 Aug 1967 421 J822
Aldrin, Insecticide resistant insects, Lissorhoptrus oryzophilus, Louisiana, Rice.
 Abstract

9494-68
 CHLORINATED HYDROCARBON INSECTICIDES ARE NOT MUTAGENIC IN BRACON HEBETOR TESTS.
 D S Grosch L R Valcovic
 J Econ Entomol 60 (4) 01177-1179 REF
 15 Aug 1967 421 J822
Bracon hebetor, Chlorinated hydrocarbons, Insect mutation.

9495-68
 CATCH A MALE PINK BOLLWORM IN TRAPS BAITED WITH SEX ATTRACTANT.
 A A Guerra M T Ouye
 J Econ Entomol 60 (4) 01046-1048
 15 Aug 1967 421 J822
Infrared rays, Insect collecting equipment, Insect traps, Pectinophora gossypiella, Sex attractants.
 Abstract

9496-68
 HOUSE FLY CONTROL AND INSECTICIDE RESISTANCE WITH CONTINUED USE OF DIAZINON, RONNELL, AND DIMETHOATE.
 E J Hansens H J Benezet E S Evans
 J Econ Entomol 60 (4) 01057-1064
 15 Aug 1967 421 J822
Chemical control (insects), Diazinon, Dimethoate, Insecticide resistant insects, Musca domestica, Ronnel.
 Abstract

9497-68
 RELATIVE TOXICITY OF FIVE INSECTICIDES TO ALFALFA WEEVIL LARVAE.
 K Harrendorf A J Keaster F G Jones
 J Econ Entomol 60 (4) 01115-1116
 15 Aug 1967 421 J822
Azinphosmethyl, Chemical control (insects), Diazinon, Hypera postica, Insecticides, Malathion, Methoxychlor, Methyl parathion, Toxicity.
 Abstract

9498-68
 THE USE OF INSECTICIDE TO DETERMINE THE LIFE HISTORY OF AN AQUATIC GNAT CHAOBORUS ASTICTOPUS.
 W Hazeltine
 Entomol Soc Amer Ann 56 (6): 816-818, 5 REFS., 1 TAB.
 Nov 1963 420 EN82
Chaoborus, Insect morphology.

9499-68
 SUSCEPTIBILITY OF VARIOUS STAGES OF DROSOPHILA MELANOGASTER TO GAMMA RADIATION.
 T J Henneberry
 J Econ Entomol 60 (4) 01041-1043
 15 Aug 1967 421 J822
Chemical control (insects), Drosophila melanogaster, Gamma rays.
 Abstract

9500-68
 OBTAINING AND PROTECTING RED-CLOVER POLLINATING SPECIES OF BOMBUS (HYMENOPTERA: APIDAE).
 G A Hobbs
 Can Entomol 99 (9) 0943-951
 Sep 1967 421 C16
Bombus, Insect pollinators, Red clover.
 Abstract

9501-68
 OVERWINTERING OF THE HORN FLY IN NORTHEAST MISSISSIPPI.
 C E Hoelscher J R Brazzel R L Combs
 J Econ Entomol 60 (4) 01175-1176 REF
 15 Aug 1967 421 J822
Haematobia irritans, Hibernation, Mississippi.

9502-68
 CAPRIC ACID BLENDED INTO FOODSTUFF FOR CONTROL OF AN INSECT PEST, TRIBOLIUM CONFUSUM (COLEOPTERA: TENEBRIONIDAE).
 H L House A R Graham
 Can Entomol 99 (9) 0994-999

BIBLIOGRAPHY

10 9522-68

Sep 1967 421 C16
Chemical control (insects), Decanoic acid, Insect nutrition, Insecticidal fatty acids, Mortality, *Tribolium confusum*.
Abstract

9503-68
MULTIPLICATION TIEULA AND CHILD IRIDESCENT VIRUSES IN CELLS OF ANTHERAEEA EUCALYPTI.
T Hukuhara
J Invertebrate Pathol 9(2), 278-281.
Jun 1967 421 J826
Antheraea eucalypti, Child iridescent virus, *Galleria mellonella*, *Tipula iridescent virus*, Virus diseases (insects).

9504-68
BIOLOGICAL STUDIES OF A HITIOGASTER MITE (ACARINA: ACARIDAE) ASSOCIATED WITH PINE REPRODUCTION WEEVILS.
P E Hunter
Entomol Soc Amer Ann 56(5):682-687, 13 REFS., 4 TABS.
Sep 1963 420 EN82
Insect biology, Mites, Rhyncophora.

9505-68
THE PERSISTENCE OF A NUCLEAR POLYHEDROSIS VIRUS IN THE HABITAT OF THE HOST INSECT, *TRICHOPLUSIA NI*. II. POLYHEDRA IN SOIL.
R P Jaques
Can Entomol 99(8) 0820-829
Aug 1967 421 C16
Granuloses, Soils, *Trichoplusia ni*, Virus diseases (insects).
Abstract

9506-68
THE PERSISTENCE OF A NUCLEAR POLYHEDROSIS VIRUS IN THE HABITAT OF THE HOST INSECT, *TRICHOPLUSIA NI*. I. POLYHEDRA DEPOSITED ON FOLIAGE.
R P Jaques
Can Entomol 99(8) 0785-794 REF
Aug 1967 421 C16
Biological control (insects), Granuloses, Polyhedroses, *Trichoplusia ni*, Ultraviolet rays, Virus diseases (insects).
Abstract

9507-68
NEW BIOASSAY TECHNIQUE WITH SPECIAL REFERENCE TO THE SPECIFIC BIOASSAY OF DDVP INSECTICIDE.
E R Johnson
J Sci Food Agr 15(7):II-21-10
Jul 1964 382 S012
Biological assay, Chromatography, Dichlorvos, Insecticides.

9508-68
THE MECHANISM OF OVULATION AND OVIPOSITION IN AEDES AEGYPTI.
J C Jones
Entomol Soc Amer Ann 54(2):298-313, 112 REFS.
Mar 1961 420 EN82
Aedes aegypti, Oviposition, Ovulation.

9509-68
LIPOGENESIS FROM C14-ACETATE BY THE AMERICAN COCKROACH.
J N Kaplanis W E Robbins R E Monroe
Entomol Soc Amer Ann 54(1):99-103, 14 REFS.
Jan 1961 420 EN82
Lipids, Periplaneta, Radioactive tracers.

9510-68
THE UTILIZATION OF DIETARY CHOLESTEROL BY GERMAN COCK-ROACHES.
J N Kaplanis R E Monroe L A Tabor
Entomol Soc Amer Ann 54(2):165-168, 18 REFS.
Mar 1961 420 EN82
Blattella germanica, Cholesterol.

9511-68
PREFERENCES OF TWO RACES OF HONEY BEES FOR SELECTED ALFALFA CLONES UNDER COMPETITIVE AND NONCOMPETITIVE FORAGING.
N M Kauffeld E L Sorensen R H Painter
J Econ Entomol 60 (4) 01135-1139 REF
15 Aug 1967 421 J822
Alfalfa, *Apis mellifera*, Host specificity, Insect pollinators.
Abstract

9512-68
AMINO ACID COMPOSITION OF THE *TIPLA IRIDESCENT VIRUS*.
S Kawase T Hukuhara
J Invertebrate Pathol 9(2), 273-274.
Jun 1967 421 J826
Amino acids, Deoxyribonucleic acid, *Galleria mellonella*, Proteins, *Tipula iridescent virus*, Virus diseases (insects).

9513-68
A BIOLOGICAL AND TOXICOLOGICAL STUDY OF STRAINS OF TWO-SPOTTED SPIDER MITES.
D L Kensler H T Streu
J Econ Entomol 60 (4) 01073-1078
15 Aug 1967 421 J822
Aranite, Dicofol, Ethion, Insect biology, Insect rearing, Insecticide resistant insects, Parathion, *Tetranychus urticae*, Toxicology.
Abstract

9514-68
SELECTIVE EFFECTS OF CERTAIN ANTI-FERTILITY COMPOUNDS ON THE HOUSE FLY AS SHOWN BY RECIPROCAL CROSSES AND HISTOLOGICAL SECTIONING.
J B Kissam J A Wilson S B Hays
J Econ Entomol 60 (4) 01130-1135
15 Aug 1967 421 J822
Hydroxyurea, Insect genetics, Insect histology, Methylmethanesulfonate, *Musca domestica*, Sterilization, Tretamine.
Abstract

9515-68
A NEW BIOLOGICAL RACE OF MICROTERYS FLAVUS INTRODUCED INTO CALIFORNIA FOR THE CONTROL OF LECANIINE COCCIDS, WITH AN ANALYSIS OF ITS BEHAVIOR IN HOST SELECTION.
C F Lagace
Entomol Soc Amer Ann 54 (2):222-227, 16 REFS.
Jan 1961 420 EN82
Coccus, Microterys.

9516-68
IONIC DISTRIBUTION STUDIES IN HAEMOLYMPH FROM DIFFERENT PARTS OF PERIPLANETA AMERICANA BY RADIOACTIVE TRACERS.
S K Lahiri A Roy D Banerjee S C Samdar S R Basu B D Nag
Indian J Exp Biol 05 (1), 27-28
Jan 1967 442.8 IN2
Haemolymph, Insect physiology, *Periplaneta americana*, Radioactive tracers.

9517-68
CONTINUOUS LABORATORY REARING OF THE IMPORTED CABBAGEWORM.
F M Laigo H L Hansen J D Paschke
J Econ Entomol 60 (4) 01184-1185
15 Aug 1967 421 J822
Brussels sprouts, Insect rearing, *Pieris rapae*.

9518-68
PREDICTING EMERGENCE OF SECOND-INSTAR SPRUCE BUDWORM LARVAE FROM HIBERNATION UNDER FIELD CONDITIONS IN MINNESOTA.
Entomol Soc Amer Ann 54 (2):175-177, 7 REFS.
Mar 1961 420 EN82
Choristoneura, Metamorphosis, Minnesota.

9519-68
STRIDULATORY MECHANISMS IN THE LYGAEIDAE, WITH A NEW AMERICAN GENUS OF ORSILLINAE (HEMIPTERA: HETEROPTERA).
J D Lattin
Entomol Soc Amer Ann 56(5):693-703, 18 REPS.
Sep 1963 420 EN82
Lygaeidae.

9520-68
VIRUSLIKE PARTICLES IN ADULT HONEY BEES (*APIS MELLIFERA LINNÆUS*) FOLLOWING INJECTION WITH SACBROOD VIRUS.
P E Lee B Furgala
Virology 32(1) 011-17 REF
May 1967 448.8 V81
Apis mellifera, Bee diseases, Sacbrood, Virus diseases (insects).
Abstract

9521-68
ELECTRON MICROSCOPIC OBSERVATIONS ON THE LOCALIZATION AND DEVELOPMENT OF SACBROOD VIRUS.
P E Lee B Furgala
J Invertebrate Pathol 9(2), 178-187. REF.
Jun 1967 421 J826
Apis mellifera, Bee diseases, Electron microscopy, Sacbrood, Virus diseases (insects).
Abstract

9522-68
FOOD SOURCES AND PREFERENCES OF ADULTS OF A PARASITE, SCAMBUS BUOLIANAE (HYMENOPTERA: ICHNEUMONIDAE), AND THEIR CONSEQUENCES.
K Leius

BIBLIOGRAPHY

10 9523-68

Can Entomol 99(8) 0865-871
 Aug 1967 421 C16
 Insect nutrition, Parasitic insects, *Scambus buolianae*.
 Abstract

9523-68
 EARLY EVENTS OF SERICESTHIS IRIDESCENT VIRUS INFECTION IN HEMOCYTES OF GALLERIA MELLONELLA (L.).
 R Leutenegger
 Virology 32(1) 0109-116 REF
 May 1967 448.8 V81
 Anthraea eucalypti, Culture media, *Galleria mellonella*, Sericesthis iridescent, Virus diseases (insects).
 Abstract

9524-68
 THE PRESENCE OF 2-HEXENAL IN THE SCENT GLAND OF THE PENTATOMID BROCHYMENA QUADRAPHUSTULATA.
 Entomol Soc Amer Ann 54(3):410-412
 May 1961 420 EN82
 Hexenal, 2-, Scent glands.

9525-68
 RELATION OF DDT-IRRITATION THRESHOLD TO KNOCKDOWN OF THREE SPECIES OF ANCERHELINE MOSQUITOES.
 O Mancera A Barrera
 J Sci Food Agr 12(1):I-55-3
 Jan 1961 382 S012
 Culicidae, Ddt.

9526-68
 THE CHOLINERGIC SYSTEM DURING DIAPAUSE AND DEVELOPMENT OF ROTHSCHILDIA ORIZAEA.
 A Mansingh
 Indian J Entomol 29(2) 0131-134
 Jun 1967 420 IN23
 Acetylcholine, Diapause, *Rothschildia orizaba*.

9527-68
 DESCRIPTIONS OF THE IMMATURE STAGES OF STENODYNERUS CLAREMONTENSIS (HYMENOPTERA VESPIDAE).
 G P Markin A R Gittins
 Can Entomol 99(8) 0871-877
 Aug 1967 421 C16
 Insect biology, *Stenodynerus claremontensis*.
 Abstract

9528-68
 THE EFFECT OF WOODPECKER PREDATION ON WOOD-BORING LARVAE OF FAMILIES SIBICIDAE (HYMENOPTERA) AND MELANDRYIDAE (COLEOPTERA).
 H G W Marshall
 Can Entomol 99(9) 0978-985 REF
 Sep 1967 421 C16
 Forest insects, Melandryidae, Predatory birds, Siricidae, Woodpeckers.
 Abstract

9529-68
 APHOLATE AS A CHEMOSTERILANT FOR DROSOPHILA MELANOGASTER.
 H C Mason F F Smith
 J Econ Entomol 60(4) 01127-1130
 15 Aug 1967 421 J822
 Apholate, Chemosterilants, *Drosophila melanogaster*, Sterilization.
 Abstract

9530-68
 DIAPAUSE IN THE CABBAGE MAGGOT, HYLEMYA BRASSICAE (DIPTERA ANTHOMYIIDAE).
 D G R McLeod G R Driscoll
 Can Entomol 99(8) 0890-893 REF
 Aug 1967 421 C16
 Diapause, Hibernation, *Hydemya brassicae*, Photoperiodism, Temperature.
 Abstract

9531-68
 DETERMINING THE OVIPOSITION RHYTHM OF PHANEROTOMA FLAVITESTACEA, AN EGG-LARVAL PARASITE.
 D W Meals I E Caltagirone
 J Econ Entomol 60(4) 01118-1120
 15 Aug 1967 421 J822
 Insect rearing equipment, Ovipositors, Parasitic insects, *Phanerotoma flavitestacea*.
 Abstract

9532-68
 CARBAMATE INSECTICIDES : SYNERGISM BY ORGANOTHIOCYANATES.
 R I Metcalf T R Fukuto
 J Sci Food Agr 15(12):II-320-2
 Dec 1964 382 S012
 Carbamates, Insecticide synergists, *Musca domestica*, Thanite.

9533-68
 CUMULATIVE EFFECTS OF SUBSTERILIZING DOSAGES OF APHOLATE AND METEPA ON LABORATORY POPULATIONS OF THE HOUSE FLY.
 P B Morgan G C Labrecque C N Smith D W Meifert C M Murvosh
 J Econ Entomol 60(4) 01064-1067
 15 Aug 1967 421 J822
 Apholate, Chemosterilants, Heredity, Metepa, *Musca domestica*, Sterilization.
 Abstract

9534-68
 VOLATILITY OF TRAIL MARKING SUBSTANCE OF THE TOWN ANT.
 J C Moser R M Silverstein
 Nature 215 (5097), 206-207
 08 Jul 1967 472 N21
Atta texana, Insect behavior, Trail marking.

9535-68
 RESPONSE OF THE EYE GNAT HIPPELATES COLLUSOR TO LIGHT OF DIFFERENT WAVE LENGTHS.
 M S Mulla
 Entomol Soc Amer Ann 54(1):69-72, 9 REFS.
 Jan 1961 420 EN82
 Hippelates, Photosensitization.

9536-68
 IDENTIFICATION AND DESCRIPTIONS OF AEDES EGGS FROM CALIFORNIA AND NEVADA (DIPTERA O CULICIDAE).
 C M Myers
 Can Entomol 99(8) 0795-806
 Aug 1967 421 C16
 Aedes, Insect eggs.
 Abstract

9537-68
 OBSERVATIONS ON THE CYCLOREHAPHAN LARVAL PERIPHERAL NERVOUS SYSTEM: MUSCLE AND TRACHEAL RECEPTOR ORGANS AND INDEPENDENT TYPE II NEURONS ASSOCIATED WITH THE LATERAL SEGMENTAL NERVES.
 Entomol Soc Amer Ann 56(6):755-763, 18 REFS.,
 Nov 1963 420 EN82
 Hymenoptera, Insect physiology, Nervous system, Orthoptera.

9538-68
 GYNANDROMORPHISM IN DERMACENTOR OCCIDENTALIS (ACARI, IXODIDAE).
 J H Oliver E D Delfin
 Entomol Soc Amer Ann 60(5), 1119-1121
 Sep 1967 420 EN82
 Abnormalities, Apholate-acetone, *Dermacentor occidentalis*, Gynandromorphism.

9539-68
 THE EFFECT OF TRYPANOSOMA RANGELI ON THE CONCENTRATION OF AMINO ACIDS IN THE HEMOLYMPH OF RHODNIUS PROLIXUS.
 W E Ormerod
 J Invertebrate Pathol 9(2), 247-255. REF.
 Jun 1967 421 J826
 Amino acids, Blood, Chromatography, Insect metabolism, Parasitism, *Rhodnius prolixus*, South American trypanosomiasis, *Trypanosoma rangeli*.
 Abstract

9540-68
 FURTHER OBSERVATIONS ON THE BIOLOGY AND CONTROL OF WHITE GRUBS (HOLOTRICHIA SP NEAR COSANGUINEA BLANCH) IN SOIL, AFFECTING GROUNDNUT IN GUJARAT.
 R M Patel G G Patel H N Vyas
 Indian J Entomol 29(2) 0170-176
 Jun 1967 420 IN23
 Aldrin, Benzene hexachloride, Chemical control (insects), Chlordane, Heptachlor, Holotrichia, Insect biology, Lindane, Peanuts, White grubs.

9541-68
 THE FORAGING BEHAVIOR OF APIS INDICA F (HYMENOPTERA APIDAE) VISITING FLOWERS OF SESAME, (SESAMUM ORIENTALE L.).
 K G Phadke N C Pant R B P Sinha
 Indian J Entomol 29(2) 0157-163 REF
 Jun 1967 420 IN23
Apis indica, Insect behavior, Sesame.
 Abstract

BIBLIOGRAPHY

10 9560-68

9542-68
 SYNERGISM OF CARBAMATE AND ORGANOPHOSPHATE INSECTICIDES BY NONINSECTICIDAL CARBAMATES.
 P W Plapp T M Valega
 J Econ Entomol 60 (4) 01094-1102 REF
 15 Aug 1967 421 J822
 Carbamates, Chemical control (insects), Insecticide resistant insects, Insecticides, *Musca domestica*, Organophosphate compounds, Synergism.
 Abstract

9543-68
 NEOAPLECTANA PARASITISM OF LARVAE OF THE GREATER WAX MOTH, *GALLERIA MELLONELLA*.
 G O Ecinar P T Hinsworth
 J Invertebrate Pathol 9(2), 241-246. REF.
 Jun 1967 421 J826
 Achromobacter *nematophilus*, Mortality, Nematodes, *Neoaplectana*, Parasitism.
 Abstract

9544-68
 MYCOTOXIN PRODUCTION BY SPECIES OF ENTOMOPHTHORA.
 S Prasertphon
 J Invertebrate Pathol 9(2), 281-282.
 Jun 1967 421 J826
 Entomogenous fungi, Entomophthora, *Galleria mellonella*, Metamorphosis, Mycotoxins. The mycotoxin inhibits the metamorphosis of the insect when injected in sufficient dose into the hemocoel.

9545-68
 ARTIFICIAL DIET FOR APPLE MAGGOT LARVAE.
 R J Prokopy
 J Econ Entomol 60 (4) 01161-1162
 15 Aug 1967 421 J822
 Insect nutrition, *Rhagoletis pomonella*.

9546-68
 SOME ASPECTS OF THE MODE OF ACTION OF BACILLUS THURINGIENSIS BEBLINER IN FARIAS FABIA (STOLL.) (LEPIDOPTERA ARCTIIDAE).
 N Ramakrishnan N C Pant
 Indian J Entomol 29(2) 0149-153 REF
 Jun 1967 420 IN23
Bacillus thuringiensis, *Earias fabia*, Gastrointestinal system, Hydrogen-ion concentration, Toxins, X-rays. Part of a thesis submitted by N. ramakrishnan to the P. g school of the Indian Agricultural Research Institute, Delhi, towards a Ph D degree.
 Abstract

9547-68
 ASSOCIATION OF SUBZERO TEMPERATURES, SNOW COVER, AND WINTER MORTALITY OF GRASSHOPPER EGGS IN SASKATCHEWAN.
 P W Riegert
 Can Entomol 99(9) 01000-1003
 Sep 1967 421 C16
 Grasshoppers, Insect eggs, Mortality, Snow, Temperature, Winter.
 Abstract

9548-68
 OPIUS LECTUS AND O ALLOEUS (HYMENOPTERA BRACONIDAE), LARVAL PARASITES OF THE APPLE MAGGOT, *RHAGOLETIS POMONELLA* (DIPTERA TRYPETIDAE), IN QUEBEC.
 I Rivard
 Can Entomol 99(8) 0895-896
 Aug 1967 421 C16
Opius alloeus, *Opius lectus*, Parasitic insects, *Rhagoletis pomonella*.
 Abstract

9549-68
 LIPIDS IN INSECT EGGS: A REVIEW WITH NEW EVIDENCE FROM THE MILKWEED BUG *ONCOPELTUS FASCIATUS* (HEMIPTERA, LYGAEIDAE).
 C W Rutschky
 Entomol Soc Amer Ann 54(2): 156-164, 22 REFS.
 Mar 1961 420 EN82
 Insect eggs, Lipids, *Oncopeltus*.

9550-68
 LOW TEMPERATURE TOLERANCE OF SOME INSECTS.
 R S Saini
 Indian J Entomol 29(2) 0135-138
 Jun 1967 420 IN23
 Cold, *Macrosteles fascifrons*, Mortality, *Oncopeltus fasciatus*, *Periplaneta americana*, Temperature.
 Abstract

9551-68
 THE DEFENSE REACTIONS OF THREE SPECIES OF HYPERA (COLEOPTERA, CURCULIONIDAE) TO AN ICHNEUMON WASP.
 G Salt R Van Den Bosch
 J Invertebrate Pathol 9(2), 164-177. REF.
 Jun 1967 421 J826
Bathyplectes curculionis, Encapsulation, *Hypera brunneipennis*, *Hypera postica*, Ichneumonidae, Insect protective devices, Melanization, Parasitism.
 Abstract

9552-68
 METHODS FOR CULTURING ROOT APHIDS ON WOODY PLANTS.
 S L Sethi K G Swenson
 J Econ Entomol 60 (4) 01170-1171
 15 Aug 1967 421 J822
Amelanchier floridana, Climbing plants, *Eriosoma americanum*, *Eriosoma lanigerum*, *Eriosoma pyricola*, Insect rearing, Pears.

9553-68
 DIFFERENTIAL COLLECTION OF CRANBERRY POLLEN BY HONEY BEES.
 H Shimanuki T Lehneit M Stricker
 J Econ Entomol 60 (4) 01031-1033
 15 Aug 1967 421 J822
Apis mellifera, Cranberries, Pollen.
 Abstract

9554-68
 THIN-WALLED SENSORY PEGS ON THE ANTENNA OF THE TERMITE WORKER, *RETICULITERMES FLAVIPES*.
 E H Slifer L B Stephens
 Entomol Soc Amer Ann 56(6): 874-878, 13 REFS.
 Nov 1963 420 EN82
 Insect physiology, Termites.

9555-68
 INFLUENCE OF LIGHT ON THE DEVELOPMENT OF A NUCLEAR-POLYHEDROSIS OF NEODIPRION SWAINI.
 W A Smirnoff
 J Invertebrate Pathol 9(2), 269-271.
 Jun 1967 421 J826
 Darkness, Light, Mortality, *Neodiprion swainei*, Polyhedroses, Ultraviolet rays, Virus diseases (insects).

9556-68
 EFFECT OF GAMMA RADIATION ON THE LARVAE AND THE NUCLEAR-POLYHEDROSIS VIRUS OF THE EASTERN TENT CATERPILLAR, *MALACOSOMA AMERICANUM*.
 W A Smirnoff
 J Invertebrate Pathol 9(2), 264-266.
 Jun 1967 421 J826
 Gamma rays, *Malacosoma americanum*, Mortality, Polyhedroses, Virus diseases (insects).

9557-68
 EFFECTS ON RESISTANCE OF EXPOSURE OF HOUSEFLIES TO SUB-LETHAL AND PARTIALLY LETHAL DOSES OF DDT.
 S C Srivastava B C Fine
 Indian J Entomol I. (2) 0164-169 REF
 Jun 1967 420 IN23
 DDT, Heredity, Insecticide resistant insects, Mortality, *Musca domestica*, Risella oil.
 Abstract

9558-68
 MIDGUT BACTERIA OF *ONCOPELTUS FASCIATUS* (HEMIPTERA: LYGAEIDAE).
 Entomol Soc Amer Ann
 Nov 1963 420 EN82
 Insect physiology, *Oncopeltus*.

9559-68
 IN VIVO STAINING OF *GALLERIA MELLONELLA* (LEPIDOPTERA, GALLERIIDAE) FED CALCO OIL RED.
 M S M Stanley
 Entomol Soc Amer Ann 60 (5), 1121-1122
 Sep 1967 420 EN82
 Dyes, *Galleria mellonella*.

9560-68
 INTERACTION OF TEMPERATURE AND PHOTOPERIOD IN THE INDUCTION OF PROLONGED DIAPAUSE IN *NEODIPRION SERTIFER*.
 C R Sullivan D R Wallace
 Can Entomol 99(8) 0834-850
 Aug 1967 421 C16
 Diapause, Insect physiology, *Neodiprion sertifer*, Photoperiodism, Temperature.
 Abstract

BIBLIOGRAPHY

10 9561-68

9561-68
 EFFECT OF APPLICATION METHODS ON THE TOXICITY AND DISTRIBUTION OF DIELDRIN IN HOUSE FLIES.
 Y P Sun C H Schaefer E R Johnson
 J Econ Entomol 60 (4) 01033-1037
 15 Aug 1967 421 J822
 Chemical control (insects), Dieldrin, Insecticide resistant insects, *Musca domestica*, Toxicology. Abstract

9562-68
 GROWTH RESPONSE OF PRODENIA LITURA FABR IN RELATION TO THE CASTOR LEAVES OBTAINED FROM IRRADIATED PLANTS.
 V V Thobbi T Srihari
 Indian J Entomol 29(2) 0154-156
 Jun 1967 420 IN23
 Castorbeans, Gamma rays, Insect nutrition, Mutation, Prodenia litura. Abstract

9563-68
 BIOLOGY OF HYPOSOTER EXIGUAE (HYMENOPTERA: ICHNEUMONIDAE), A PARASITE OF LEPIDOPTEROUS LARVAE.
 Entomol Soc Amer Ann 54(1):25-30, 12 REFS.
 Jan 1961 420 EN82
 Insect biology, Lepidoptera.

9564-68
 HOMOGENATE RESPIRATION OF DIAPAUSING AND NONDIAPAUSING BOLL WEEVILS.
 Entomol Soc Amer Ann 54(2):313-316, 9 REFS.
 Mar 1961 420 EN82
 Anthonomus grandis, Diapause.

9565-68
 NOTES ON THE BIOLOGY OF HEMITELES GRACULUS (HYMENOPTERA: ICHNEUMONIDAE) PARASITING THE ALFALFA WEEVIL, HYPERA POSTICATA.
 Entomol Soc Amer Ann 56(6):857-859, 10 REFS.
 Nov 1963 420 EN82
 Hypera, Ichneumonidae, Insect biology, Parasitism, Rhynchophora.

9566-68
 FACTORS AFFECTING GROWTH AND MULTIPLICATION OF THE CITRUS RED MITE, PANONYCHUS CITRI.
 Entomol Soc Amer Ann 56(6):867-874, 16 REFS., 8 TABS.
 Nov 1963 420 EN82
 Insect morphology, Panonychus.

9567-68
 BIOLOGY OF TETRANYCHUS MULTISETIS, THE POLYCHAETOUS FORM OF TETRANYCHUS CINNABARINUS (ACARINA:TETRANYCHIDAE).
 Entomol Soc Amer Ann 54(1):30-34, 14 REFS.
 Jan 1961 420 EN82
 Tetranychus.

9568-68
 HATCHING OF THE EGGS OF THE EASTERN TENT CATERPILLAR, MALACCUMA AMERICANA (F.). (LEPIDOPTERA: LASIOCAMPIDAE).
 Fla Entomol 45(2):77-80, 2 REFS., 2 TABS.
 Jun 1962 420 F662
 Insect eggs, Malacosoma.

9569-68
 OBSERVATIONS ON THE OCCURRENCE OF A MILKY DISEASE AMONG LARVAE OF THE NORTHERN MASKED CHAFER, CYCLOCEPHALA BOREALIS ARROW.
 Fla Entomol 42(2):81-83, 4 REFS.
 Jun 1959 420 F662
 Cyclocephala, Larvae, Milky disease.

9570-68
 AUDIOSPECTROGRAPHIC ANALYSIS OF SOUNDS OF HEMIPTERA AND HOMOPTERA.
 Entomol Soc Amer Ann 54(2):273-291, 13 REFS.
 Mar 1961 420 EN82
 Audiospectrography, Hemiptera, Homoptera, Stridulation.

9571-68
 TEFLON AS A BARRIER TO INSECTS.
 R E Wagner
 J Sci Food Agr 15(7):II-22-1
 Jul 1964 382 SO12
 Insectproofing, Insects, Teflon.

9572-68
 OBSERVATIONS ON EGG PRODUCTION BY APHID PESTS OF POTATO IN MAINE.
 H E Wave G W Simpson

Entomol Soc Amer Ann 54(3):376-378, 8 REFS.
 May 1961 420 EN82
 Aphididae, Insect eggs, Maine, Potatoes.

9573-68
 INTRA-SPECIFIC MECHANISMS IN RELATION TO THE NATURAL REGULATION OF NUMBERS OF APHIS FABAE SCOP.
 M J Way C J Banks
 Ann Appl Biol 59(2) 0189-205 REF
 Apr 1967 442.8 AN72
 Aphis fabae, Beans, Euonymus europaeus, Parthenogenesis. Abstract

9574-68
 DIFFERENTIAL RESISTANCE OF MAIZE ROOTWORMS TO INSECTICIDES IN NEBRASKA AND ADJOINING STATES.
 G T Weekman
 J Sci Food Agr 15(7):II-22-6
 Jul 1964 382 SO12
 Aldrin, Corn, Diabrotica, Diazinon, Insecticide resistant insects, Midwestern United States.

9575-68
 STUDIES ON THE EAR MITE OTODECTES CYNOTIS, INCLUDING LIFE CYCLE.
 Entomol Soc Amer Ann 54(3):416-421
 May 1961 420 EN82
 Life cycle.

9576-68
 UNIQUE SYNERGISTIC EFFECTS PRODUCED BY THE PRINCIPAL SEX ATTRACTANT COMPOUNDS OF IPS CONFUSUS (LECONTE) (COLEOPTERA, SCOLYTIDAE).
 D L Wood R W Stark R M Silverstein J O Rodin
 Nature 215 (5097), 206
 08 Jul 1967 472 N21
 Ips confusus, Sex attractants, Synergists.

9577-68
 A TECHNIQUE FOR MONOSPORE CULTURES AND THE DETERMINATION OF NUCLEUS NUMBERS IN METARRHIZIUM ANISOPliaE.
 K H Yeen
 J Invertebrate Pathol 9(2), 276-278.
 Jun 1967 421 J826
 Cell nucleus, Culture media, Entomogenous fungi, Metarrhizium anisopliae, Monospores, Schistocerca gregaria.

9578-68
 INFECTION OF A LOOPER COMPLEX BY ENTOMOPHTHORA SPHAEROSPERMA.
 W G Yendol J D Paschke
 J Invertebrate Pathol 9(2), 274-276.
 Jun 1967 421 J826
 Autographa precationis, Entomogenous fungi, Entomophthora sphaerosperma, Mortality, Rachiplusia ou, Trichoplusia ni.

9579-68
 THE FLYING SEASON AND EMERGENCE PERIOD OF ANAX JUNIUS IN ILLINOIS (ODONATA: Aeshnidae).
 A M Young
 Can Entomol 99(8) 0886-890
 Aug 1967 421 C16
 Anax junius, Insect flight. Abstract

9580-68
 A RESPIROMETER FLASK FOR MEASURING OXYGEN CONSUMPTION DURING FLIGHT ON A TURNABOUT.
 W J Yurkiewicz
 Entomol Soc Amer Ann 60 (5), 1122-1123
 Sep 1967 420 EN82
 Diptera, Insect flight, Oxygen, Respirometers.

9581-68
 ON THE BIOLOGY OF HYLASTES NIGRINUS (COLEOPTERA: SCOLYTIDAE) IN WESTERN OREGON.
 O Zethner-Moller J A Rudinsky
 Can Entomol 99(9) 0897-911 REF
 Sep 1967 421 C16
 Hylastes nigrinus, Insect biology, Insect flight, Oregon. Abstract

Genetics

20 CROP PROTECTION

9582-68
 A RECESSIVE ALBINISM IN THE CITRUS RED MITE.
 Entomol Soc Amer Ann 56(6):792-795, 9 REFS., 2 TABS.
 Nov 1963 420 EN82
 Albinism, Insect genetics, Panonychus.

9583-68
 STUDIES ON THE DEVELOPMENT TO DDT AND MALATHION IN HOUSE FLIES.
 H G Wilson M C Bowman J B Gahan
 Fla Entomol 42(2):69-71, 5 REFS., 1 TAB.
 Jun 1959 420 F662
 Ddt, Insecticide resistant insects, Malathion,
Musca domestica.

9589-68
 SEED TREATMENT WITH NON-VOLATILE LIQUID DRESSINGS.
 C P Bampson
 J Sci Food Agr 12(2) I-78-8
 Feb 1961 382 S012
 Seed treatment.

Diseases

9584-68
 STUDIES ON THE CHROMOSOMES OF MOSQUITOES.
 O P Breland
 54(3):360-375, 35 REFS.
 May 1961 420 EN82
 Chromosomes, Culicidae, Insect genetics.

9590-68
 DISTRIBUTION OF THE CUCURBIT LATENT VIRUS (CLV) IN SOME CUCURBIT GROWING AREAS.
 Plant Dis Rep 48(4):321-323
 15 Apr 1964 1.9 P69P
 Melons, Mosaic (watermelons).

9591-68
 COLLAR ROT OF APPLE TREES. ABSTRACT FROM LITERATURE.
 J Sci Food Agr 15(7):II-25-3, 46 REFS.
 Jul 1964 382 S012
 Apples, Collar rot (apples).

9592-68
 THE PERITHECIAL STATE OF CERATOCYSTIS ULMI IN ONTARIO.
 Plant Dis Rep 48(8):615
 15 Aug 1964 1.9 P69P
 Ceratocystis ulmi, Ontario, Perithecia, Ulmus.

9593-68
 SUGAR BEET YELLOWS DISEASE IN THE U. S.
 J Sci Food Agr 12(3):I-126-8
 Mar 1961 382 S012
 Sugar beets, Yellows (beets).

9594-68
 NEEDLE BLIGHT OF EASTERN REDCEDAR IN MISSOURI.
 Plant Dis Rep 48(5):418
 15 May 1964 1.9 P69P
 Missouri, Needle blight (*Juniperus virginiana*).

9595-68
 EFFECT OF UREA APPLICATIONS ON SURVIVAL OF FUSARIUM OXYSPORUM CUBENSE IN SOIL.
 J Sci Food Agr 15(7):II-20-5
 Jul 1964 382 S012
 Bananas, Fusarium, Soil fumigation, Urea.

9596-68
 DYRENE, A PROMISING FUNGICIDE FOR PECAN SCAB CONTROL.
 Plant Dis Rep 48(7):572-573
 15 Jul 1964 1.9 P69P
 Dyrene, Pecans, Scab (pecans).

9597-68
 PROMISING NEW FUNGICIDE FOR CONTROL OF PYTHIUM ROOT ROT OF SUGAR CANE SEEDLINGS IN FLATS.
 J Sci Food Agr 12(3):I-125-1
 Mar 1961 382 S012
 Root rot (sugarcane), Sugarcane.

9598-68
 A PRELIMINARY REPORT OF MOSAIC AND STREAK DISEASES ON SUGARCANE IN EGYPT.
 Plant Dis Rep 48(4):282
 15 Apr 1964 1.9 P69P
 Egypt, Sugarcane.

9599-68
 CONTROL OF STRIPE RUST, DUE TO PUCCINIA STRIIFORMIS, ON OMAR WHEAT.
 J Sci Food Agr 15(9):II-127-1

BIBLIOGRAPHY

20 9600-68

Sep 1964 382 SC12
Maneb, *Fuccinia*, Wheat.

9600-68
A SEED-BORNE DISEASE OF BEANS, *PHASEOLUS VULGARIS*, CAUSED BY A SPECIES OF *CORYNEBACTERIUM*.
Plant Dis Rep 48(6):453-455
15 Jun 1964 1.9 P69P
Bacterial diseases (plants), Beans, *Corynebacterium*, Kidney beans.

9601-68
INFECTION OF WHEAT WITH *HELMINTHOSPORIUM SATIVUM* IN RELATION TO NITROGEN CONTENT OF THE PLANT TISSUES.
J Sci Food Agr 12(3):I-126-6
Mar 1961 382 S012
Chlrcsis (wheat), Nitrogen, Wheat.

9602-68
QUINONE AS A FUNGICIDE: HISTORY OF ITS DEVELOPMENT AND AND ITS MODE OF ACTION.
J Sci Food Agr 15(7):II-23-2, 130 REF.
Jul 1964 382 S012
Fungicides, Quinones.

9603-68
LEAD ARSENATE FOR CONTROLLING FROGEYE LEAF SPOT, *PHYSALOSPORA OBTUSA*, ON APPLE.
J Sci Food Agr 15(7):II-25-2
Jul 1964 382 S012
Apples, Captan, Lead arsenate, *Physalospora*.

9604-68
EFFECT OF MINERAL NUTRITION ON THE INVASION AND RESPONSE OF TURNIP TISSUE TO PLASMODICPHCRA BRASSICAE.
J Sci Food Agr 15(7):II-20-4
Jul 1964 382 S012
Calcium, Micronutrients, Plant disease resistance, Plant nutrition, Potassium, Turnips.

9605-68
CHEMICAL CONTROL OF PHYTOPHTHORA PALMIVORA (BUTL.), BUTL. ON THEOKROMA CACAO, L. IN NIGERIA. IV. LABORATORY AND FIELD TRIALS OF FUNGICIDES. V. COMPARISON OF THREE SPRAYING MACHINES FOR APPLYING FUNGICIDES.
J Sci Food Agr 15(7):II-25-10
Jul 1964 382 S012
Bordeaux mixture, Cacao, Fentin acetate, Nigeria.

9606-68
COMPARISON OF IN VITRO AND IN VIVO BIOASSAY OF FOLIAGE FUNGICIDES.
J Sci Food Agr 15(7):II-21-9
Jul 1964 382 S012
Biological assay, Foliar application, Fungicides, Fungus diseases (plants).

9607-68
ANTIBIOTICS IN THE CONTROL OF PLANT DISEASES.
J Sci Food Agr 15(7):II-23-1, 200 REF
Jul 1964 382 S012
Antibiotics, Cycloheximide, Griseofulvin, Peptides, Plant diseases, Polyenes, Streptomycin, Tetracycline.

9608-68
INFLUENCE OF SOIL TEMPERATURE ON ROOT AND HEART ROT OF PINE-APPLE CAUSED BY PHYTOPHTHORA CINNAMOMI AND PHYTOPHTHORA PARASITICA.
C Alatan H Klemmer
Phytopathology 55(2):125
Feb 1965 464.8 P56
Heart rot (pineapples), *Phytophthora*, Root rot (pineapples), Soil temperature.

9609-68
TRANSMISSION OF TBCACCO RATTLE VIRUS BY A STUBBY-ROOT NEMATODE, *TRICHODCRUS ALLIUS*.
T C Allen JR
Plant Dis Rep 48(5):333-334
15 May 1964 1.9 P69P
Nematodes, Plant disease transmission, Rattle disease (tobacco).

9610-68
ENZYMATIC INACTIVATION OF PHYTOPHTHORA PARASITICA BY PAPAIN.
M Aragaki J Tokunaga
Phytopathology 55(2):125
Feb 1965 464.8 P56
Enzymes, Papain, *Phytophthora*, Seed germination.

9611-68
ISOLATION OF A MECHANICALLY TRANSMISSIBLE VIRUS FROM CORN IN ARKANSAS.
Plant Dis Rep 48(9):661-663
15 Sep 1964 1.9 P69P
Arkansas, Corn, Plant disease transmission.

9612-68
AFLATOXINS IN SPANISH PEANUTS IN RELATION TO POD AND KERNEL CONDITION.
L J Ashworth Jr
Phytopathology 55(4):464-465
Apr 1965 464.8 P56
Aflatoxin, *Aspergillus*, Kernels, Peanuts.

9613-68
THE OCCURRENCE OF ONION SMUT IN EGYPT.
Plant Dis Rep 48(2):143
15 Feb 1964 1.9 P69P
Egypt, Onions, Smut (onions).

9614-68
DISTRIBUTION OF TOBACCO MOSAIC VIRUS IN SYSTEMICALLY INFECTED TOBACCO LEAVES.
P B Atkinson R E F Matthews
Virology 32(1):0171-173
May 1967 448.8 V81
Mosaic (tobacco), Tobacco, Virus diseases (plants).

9615-68
SCLEROTINIA BLIGHT OF BAHIA GRASS IN ALABAMA.
Plant Dis Rep 48(5):418
15 May 1964 1.9 P69P
Alabama, *Paspalum notatum*.

9616-68
A SEVERE VIRAL DISEASE OF VETCH.
Phytopathology 55(5):499
May 1965 464.8 P56
Leguminosae, Necrosis, Vetch, Virus diseases (plants).

9617-68
BLIGHT OF PEANUTS IN MARYLAND AND VIRGINIA IN 1963.
W K Bailey
Plant Dis Rep 48(7):519-521
15 Jul 1964 1.9 P69P
Maryland, Virginia.

9618-68
ASSESSMENT OF LOSSES CAUSED BY PADDY BLAST.
G K Bajpai L S Chauhan S C Verma
Plant Dis Rep 48(9):711-713
15 Sep 1964 1.9 P69P
Blast (rice), Crop losses, Plant injuries, Rice.

9619-68
POTATO SPINDLE TUBER CAUSED BY A STRAIN OF POTATO VIRUS X.
E M Ball G Galvez
Plant Dis Rep 48(8):597-598
15 Aug 1964 1.9 P69P
Potatoes, Spindle tuber (potatoes), Virus x (potatoes).

9620-68
K R Barker
Plant Dis Rep 48(6):428-432
15 Jun 1964 1.9 P69P
Fungus diseases (plants), Nematodes, *Rhizoctonia solani*.

9621-68
POTENTIAL OF THREE RHIZOCTONIA SPECIES TO INCITE POLAR BLIGHT AND DAMPING-OFF ON TEPHROSIA VOGELII IN PUERTO RICO.
D K Barnes A Santiago
Phytopathology 55(6):612-614, BIBL., PL.
Jun 1965 464.8 P56
Blight (tephrosia vogeli), Puerto Rico, *Rhizoctonia*.

9622-68
EFFECT OF SEED PROTECTANT AND PLANTING DEPTH ON PYTHIUM AND RHIZOCTONIA DAMPING-OFF OF TEPHROSIA VOGELII IN PUERTO RICO.
D K Barnes R H Freyre A Santiago
Plant Dis Rep 48(9):714-717
15 Sep 1964 1.9 P69P
Plant disease control, Puerto Rico, *Rhizoctonia*, Seed treatment.

BIBLIOGRAPHY

20 9646-68

9623-68
MACROPHOMINA PRASEOLI IN TRE FOREST TREE NURSERIES OF CALIFORNIA.
R V Bega
Plant Dis Rep 48(3):206
15 Mar 1964 1.9 P69P
California, Macrophomina, Nursery stock (forestry).

9624-68
GROUND BEETLES ON COTTON FOLIAGE.
R Bell
Fla Entomol 43(3):103-104, 5 REFS., 1 TAB.
Sep 1960 420 F662
Carabidae, Cotton.

9625-68
CONTROL OF ROOT-ROT, DUE TO RHIZOCTONIA SOLANI, OF SNAP-DRAGON.
W L Riehn A L Morehart J F Baniecki
J Sci Food Agr 15(7):II-25-7
Jul 1964 382 SO12
Antirrhinum, Pentachloronitrobenzene, Rhizoctonia.

9626-68
WHEAT STREAK Mosaic VIRUS IN NORTH DAKOTA.
H L Bissontette
Plant Dis Rep 48(9):703
15 Sep 1964 1.9 P69P
North Dakota, Streak mosaic (wheat), Wheat.

9627-68
EFFECT OF PLANTING DATE ON STALK ROT SUSCEPTIBILITY AND CELL DEATH IN CORN.
L V Econe
Phytopathology 55(5):501
May 1965 464.8 P56
Corn, Necrosis, Planting date, Stalk rot (corn).

9628-68
INFLUENCE OF SUBSTRATE ON ACTIVITY OF A BACTERIUM ANTAGONISTIC TO STREPTOMYCES SCARIES.
T Rowan
Phytopathology 55(2):126
Feb 1965 464.8 P56
Bacillus, Bacteria, Streptomyces, Substrates.

9629-68
STONY PIT VIRUS DISEASE OF PEARS IN NEW YORK STATE.
K D Brase G Schmid
Plant Dis Rep 48(5):382-384
15 May 1964 1.9 P69P
New York, Pears, Stony pit (pears), Virus diseases (plants).

9630-68
PHALTAN FOR TRE CONTROL OF GRAPE DISEASES.
A J Braun
J Sci Food Agr 12(3):I-128-2
Mar 1961 382 SO12
Black rot (grapes), Phaltan, Powdery mildew (grapes).

9631-68
REACTIONS OF WHEAT VARIETIES AND SPECIES TO CULTURES OF TRE POWDERY MILDEW FUNGUS.
L W Briggle S M Edwards
Plant Dis Rep 48(4):262-263
15 Apr 1964 1.9 P69P
Host indexing (plants), Powdery mildew (wheat), Wheat.

9632-68
A RINGSPOT-LIKE VIRUS IN LEAVES OF WHITE ASR: SYMPTOMS AND TRANSMISSION.
Phytopathology 55(2):128
Feb 1965 464.8 P56
Fraxinus americana, Ring spot (trees).

9633-68
ACTION OF A RICE-PERCENTAGE SEED DRESSING IN CONTROLLING THE RAPE FLEA-BEETLE AND TRE Cabbage GALL WEEVIL.
C Ruhl
J Sci Food Agr 12(2) I-77-3
Feb 1961 382 SO12
Cabbage, Chrysomelidae, Lindane, Rhyncophora, Seed treatment.

9634-68
SACO POTATO INFECTED WITH POTATO VIRUS S BY GRAFTING.
Phytopathology 55(6):707, RIRL.
Jun 1965 464.8 P56
Plant grafting, Virus s (potatoes).

9635-68
PHYSIOLOGICAL SPECIALISATION IN ERYSPHE GRAMINIS, DC. IN OATS.
W S Catling
J Sci Food Agr 15(7):II-22-5
Jul 1964 382 SO12
Erysiphe graminis, Oats, Plant breeding, Plant disease resistance.

9636-68
PRYTOPATROLOGICAL NOTES.
TRE MECHANISM OF TRANSMISSION OF RADINAPRELENCRUS COCOPHILUS BY TRE PALM WEEVIL, RHYNCHOPRORUS PALMARUM.
Phytopathology 55(1):117-118, RIRL.
Jan 1965 464.8 P56
Insect vectors, Palmae, Plant disease transmission, Red ring (coconuts), Rhynchophorus.

9637-68
EFFECT OF FALLOWING AND FLOODING ON ROOT KNOT IN PEAT SOIL.
Plant Dis Rep 48(4):303-306, TABS.
15 Apr 1964 1.9 P69P
Fallowing, Peat, Soil moisture.

9638-68
EVALUATION OF SOIL FUNGICIDES AGAINST FUSARIUM SOLANI ISOLATED FROM FEEDER ROOTS OF CITRUS TREES.
R C Cetas R Whidden
J Sci Food Agr 12(2) I-76-6
Feb 1961 382 SO12
DAC 649, Spreading decline (citrus), Tetrachlorotetrahydrothiophene-1,1-dioxide, 3,3,4,4-, Vapam.

9639-68
POPULATION DYNAMICS OF HETERODERA GLYCINES UNDER VARIOUS CROPPING SEQUENCES IN FIELD RINS.
A Y Chambers
Phytopathology 55(1):100-103, RIRL. 102-103
Jan 1965 464.8 P56
Cotton, Crop rotation, Demography, Heterodera, Plant disease resistance, Soybeans, Storage.

9640-68
MECHANICAL TRANSMISSION OF PLUM-LINE PATTERN VIRUS.
P W Cheney R C Lindner
Plant Dis Rep 48(8):616-618
15 Aug 1964 1.9 P69P
Line pattern (plums), Plant disease transmission, Plums, Virus diseases (plants).

9641-68
EFFECT OF GRASSES ON HELMINTOSPORIUM SATIVUM IN SOIL.
S R F Chinn
J Sci Food Agr 15(7):II-24-2
Jul 1964 382 SO12
Barley, Crop rotation, Grasses, Helmintosporium, Wheat.

9642-68
TRE BLACK HEART DISEASE OF CAVENDISH BANANA FRUITS.
M Chorin
Plant Dis Rep 48(2):134-135
15 Feb 1964 1.9 P69P
Bananas, Black heart (bananas), Fusarium.

9643-68
ALTERNATE LOCAL LESION HOSTS FOR PEA ENATION MOSAIC VIRUS.
C C Chow
Phytopathology 55(2):127
Feb 1965 464.8 P56
Beans, Enation mosaic (peas), Peas, Plant hosts.

9644-68
AGENT OF MAREK'S DISEASE IN TISSUE CULTURE.
A E Churchill P M Riggs
Nature 215 (5100), 528-530 REF
29 Jul 1967 472 N21
Avian lymphomatosis, Poultry, Tissue culture.

9645-68
TRE EFFECT OF IRRIGATION AND TEN SPECIES OF SOIL FUNGI ON TRE GROWTH OF WHITE CLOVER IN FIELD RINS.
Phytopathology 55(5):499
May 1965 464.8 P56
Fungus diseases (plants), Irrigation, Plant disease resistance, White clover.

9646-68
DIFFERENTIATION OF STRAINS OF TOBACCO MOSAIC VIRUS BY IMMUNE DIFFUSION IN AGAR PLATES.
Phytopathology 55(6):635-639, RIRL. 638-639, PL.

BIBLIOGRAPHY

20 9647-68

Jun 1965 464.8 P56
Agar, Mosaic (tobacco), Tobacco.

9647-68

TIME-OF-APPLICATION STUDIES IN THE APPLE COVER SPRAY PROGRAM
IN DELAWARE.
S R Connor
Phytopathology 55(5):504
May 1965 464.8 P56
Apples, Delaware, Spraying.

9648-68

FUSARIUM SPECIES ASSOCIATED WITH CACAO GALLS.
R J Cook J A Bourret
Phytopathology 55(2):125
Feb 1965 464.8 P56
Cacao, Fusarium, Plant galls.

9649-68

REDUCED PHOTOSYNTHESIS IN TOBACCO PLANTS INFECTED WITH
TOBACCO RINGSPOT VIRUS.
M K Corbett
Phytopathology 55(3):370-371, BIBL.
Mar 1965 464.8 P56
Photosynthesis, Ring spot (tobacco), Tobacco.

9650-68

BACTERIAL ACTION OF SEVERAL ORGANIC FUNGICIDES AGAINST
ERWINIA AMYLOVORA, AND FIRE BLIGHT DISEASE CONTROL.
Plant Dis Rep 48(3):182-186, TABS.
15 Mar 1964 1.9 P69P
Bactericides, Erwinia, Fire blight (fruit), Fungicides.

9651-68

POLYGALACTURONATE TRANS-ELIMINASE PRODUCTION BY FUSARIUM
SP. ISOLATED FROM ALFALFA ROOTS.
Phytopathology 55(2):130
Feb 1965 464.8 P56
Alfalfa, Fusarium, Pectinase.

9652-68

FORMATION OF INFECTION CUSHIONS BY RHIZOCTONIA SOLANI ON
SYNTHETIC FILMS IN SOILS.
Phytopathology 55(2):129
Feb 1965 464.8 P56
Rhizoctonia, Soils.

9653-68

BACTERIA ISOLATED FROM DECAYS AND DISCOLORATIONS IN NORTHERN
HARDWOODS.
B Cosenza A L Shigo
Phytopathology 55(2):129-130
Feb 1965 464.8 P56
Bacteria, Hardwoods, Wood decay.

9654-68

INFLUENCE OF ENVIRONMENT ON DISEASES OF TURFGRASSES. IV.
EFFECT OF NUTRITION AND SOIL MOISTURE ON LORTICIUM RED
THREAD OF CREEPING RED FESCUE.
H B Couch
Phytopathology 55(5):507-510, BIBL., TABS.
May 1965 464.8 P56
Environment, Plant nutrition, Soil moisture, Turf.

9655-68

BROAD SPECTRUM FUNGICIDES FOR CONTROL OF MELTING-OUT OF
KENTUCKY BLUE GRASS AND SCLEROTINIA DOLLAR SPOT OF SEASIDE
BENTGRASS.
H B Couch L D Moore
J Sci Food Agr 12(2) I-76-44
Feb 1961 382 S012
Agrostis, Dollar spot (grasses), Dystene, GAB5,
Melting out (poa), ML 373.

9656-68

RESISTANCE OF CONIFEROUS ROOT WOOD AND STEM WOOD TO DECAY BY
FOMES ANNOSUS.
E B Cowling C S Hodges Jr
Phytopathology 55(2):130-131
Feb 1965 464.8 P56
Fomes, Plant disease resistance, Wood decay.

9657-68

FUNGI ASSOCIATED WITH DISEASED ROOTS OF SOYBEAN IN
DELAWARE.
H W Crittenden
Phytopathology 55(5):506
May 1965 464.8 P56
Culture media, Delaware, Fusarium, Root rot (soybeans),
Soybeans.

9658-68

RELATIONSHIP OF MELOIDOGYNE INCOGNITA ACRITA AND
PLASMODIOPHORA BRASSICAE IN CABBAGE ROOTS.
H W Crittenden
Phytopathology 55(5):506
May 1965 464.8 P56
Cabbage.

9659-68

CONTROL OF CUCURBIT SCAB, CLADOSPORIUM CUCUMERINUM, BY
FOLIAR FUNGICIDE SPRAYS.
D F Crossan
J Sci Food Agr 15(7):II-25-8
Jul 1964 382 S012
Cantaloupes, Cucumbers, Dithane M-45, Dodine.

9660-68

THE EFFECT OF NONBACTERICIDAL AND BACTERICIDAL CHEMICALS ON
XANTHOMONAS VESICATORIA.
D F Crossan
Phytopathology 55(5):506
May 1965 464.8 P56
Xanthomonas.

9661-68

CYCLOHEXIMIDE DERIVATIVES FOR CONTROLLING BROWN SPOT ON
LONGLEAF.
F J Czabator S S Sorrels
Plant Dis Rep 48(7):551-553
15 Jul 1964 1.9 P69P
Brown spot (pinus palustris), Cycloheximide, Pinus palustris.

9662-68

DEGREE OF RESISTANCE TO BARLEY YELLOW DWARF IN SELECTED
ETHIOPIAN BARLEYS.
V D Damstregt
Plant Dis Rep 48(6):470
15 Jun 1964 1.9 P69P
Barley, Crop varieties, Ethiopia, Plant disease resistance,
Yellow dwarf (barley).

9663-68

DISEASES OF MANGIFERA INDICA XI. EFFECT OF BORON ON MANGO
NECROSIS.
S N Das Gupta C Sen
J Sci Food Agr 12(2) I-73-1
Feb 1961 382 S012
Mangoes, Necrosis.

9664-68

FUNGICIDE TREATMENT OF MUCK SOIL FOR CONTROLLING DAMPING-OFF
OF RED BEET IN THE GREENHOUSE.
R A Davis R A Crum
J Sci Food Agr 15(8):II-84-8
Aug 1964 382 S012
Beets, Damping-off (beets), Seedbeds.

9665-68

EFFECT OF MINERAL NUTRITION ON DEVELOPMENT OF CROWN GALL ON
BONNY BEST TOMATO AND MAZZARD CHERRY.
I W Deep
Phytopathology 55(5):575-578, BIBL., TABS.
May 1965 464.8 P56
Cherries, Crown gall (tomatoes), Mazzard cherries,
Mineralization (nutrients), Necrosis, Tomatoes.

9666-68

FLOURY LEAF SPOT OF FRENCH BEAN CAUSED BY RAMULARIA PHAS-
EOLI (DRUMMOND) COMB. NOV.
F C Deighton
Brit Mycol Soc Trans 50(1) 123-127, REF.
Mar 1967 451 B76
Beans, Leaf spot (beans), Plant geography.

9667-68

X-DISEASE OF CHOKECBERRY, PRUNUS VIRGINIANA, IN NEW
BRUNSWICK, CANADA.
Plant Dis Rep 48(9):735
15 Sep 1964 1.9 P69P
Canada, Prunus, X-disease (cherries).

9668-68

TOBACCO BLUE MOLD IN MEXICO.
L R DeLoach
Plant Dis Rep 48(7):524
15 Jul 1964 1.9 P69P
Downy mildew, Downy mildew (tobacco), Mexico.

BIBLIOGRAPHY

20 9691-68

9669-68
AN EVALUATION OF A PATENTED TREATMENT FOR CONTROL OF DUTCH ELM DISEASE.
Dimond
Plant Dis Rep 48(4):308-309
15 Apr 1964 1.9 P69P
Dieback (*ulmus*).
9670-68
IMPORTANCE OF THE GREENBUG, *TOXOPTERA GRAMINUM*, IN FIELD TRANSMISSION OF EARLY YELLOW DWARF VIRUS.
D G Dody W H Sill Jr
Plant Dis Rep 48(2):127-130, BIBL. 130, TABS.
15 Feb 1964 1.9 P69P
Barley, Insect vectors, *Schizaphis*, *Toxoptera*, Yellow dwarf (barley).
9671-68
ROOT-CONTACT INFECTION BY FOMES ANNOSUS IN A THINNED LOBLICLY PINE PLANTATION.
Plant Dis Rep 48(10):767-769
15 Oct 1964 1.9 P69P
Fomes, *Pinus*.
9672-68
TRANSMISSION OF APPLE CHLOROTIC LEAF SPOT VIRUS FROM CHENOPODIUM TO APPLE.
Plant Dis Rep 48(9):678-680
15 Sep 1964 1.9 P69P
Apples, *Chenopodium*, Chlorotic leafspot (apples).
9673-68
CHEMICAL CONTROL OF PUCCINIA PITTIERIANA ON POTATOES IN ECUADOR.
J Echeverria
J Sci Food Agr 15(9):II-127-3
Sep 1964 382 S012
Ecuador, Folpet, Maneb, Potatoes, *Puccinia*, Thiram, Zineb.
9674-68
CHEMICAL CONTROL OF WHEAT RUSTS IN THE UNITED ARAB REPUBLIC.
Plant Dis Rep 48(9):685, BIBL. 684-685, TABS.
15 Sep 1964 1.9 P69P
Egypt, Rust (wheat), Wheat.
9675-68
FIELD CONTROL WITH ZINEB AND SOME OTHER COMPOUNDS FOR THE CONTROL OF RUST MITES ON CITRUS IN FLORIDA.
Fla Entomol 45(2):71-76, 5 REFS., 2 TABS.
Jun 1962 420 F662
Citrus, Mites, Florida, Zineb.
9676-68
TRANSMISSION OF SCIL-BORNE WHEAT MOSAIC VIRUS.
A P Estes M L Schuster
Phytopathology 55(1):79-86, BIBL. 85-86, TABS., PL.
Jan 1965 464.8 P56
Immunization, Mosaic (wheat), Plant disease transmission.
9677-68
A GHOST-SPOT OF GREEN PEPPERS GROWN ON THE LOWER FLORIDA EAST COAST.
Plant Dis Rep 48(4):325-326
15 Apr 1964 1.9 P69P
Florida.
9678-68
Z Eyal J L Peterson C O Johnston
Plant Dis Rep 48(8):653
15 Aug 1964 1.9 P69P
Leaf rust (wheat), New Jersey, *Puccinia*, Wheat.
9679-68
A COMPARISON OF DWARFING AND OTHER COMPOUNDS, WITH AND WITHOUT FIXED COPPER FUNGICIDE, FOR CONTROL OF BACTERIA SPOT OF PEPPER.
D J Fieldhouse
Plant Dis Rep 48(7):549-550
15 Jul 1964 1.9 P69P
Chemical control (plant diseases), Fungicides.
9680-68
A VIRUS DISEASE OF PEACH IN ISRAEL.
Z Fleisher E C Blodgett
Plant Dis Rep 51 (9) 0 733-735
Sep 1967 1.9 P69P
Israel, Peaches, Plant disease transmission, Virus diseases (plants).
9681-68
VERTICILLIUM WILT OF CARNATIONS.
J T Fletcher G W Ganney
Naas (nat Agr Adv Serv) Quart Rev 74 65-73
1966 241 G796
Dianthus caryophyllus, *Verticillium cinerescens*, Wilt (*Dianthus caryophyllus*).
9682-68
DISTRIBUTION OF RACE 1 OF PHYTOPHTHORA PARASITICA VAR.
R A Flowers J H Smiley G W Stokes
Plant Dis Rep 51 (9) 0 731-733
Sep 1967 1.9 P69P
Black shank (tobacco), Fungus diseases (plants), Kentucky, *Phytophtora parasitica*, Tennessee.
9683-68
EXTENSIONS OF THE HOST RANGES AND DISTRIBUTION OF CALICIOPSIS SPECIES ON WESTERN CONIFERS.
Plant Dis Rep 48(9):677
15 Sep 1964 1.9 P69P
Conifers, Host indexing (plants).
9684-68
DIFFERENTIATION OF CRONARTIUM QUERCUM AND CRONARTIUM COLEOSPORIOIDES ON THE BASIS OF AECIOSPORE GERM TUBES.
D W French
Phytopathology 55(2):171-173, BIBL., PL.
Feb 1965 464.8 P56
Aeciospores, *Pinus*.
9685-68
DEBARKING JACK PINE INFECTED WITH SWEETFERN RUST.
D W French
Plant Dis Rep 48(7):530-531
15 Jul 1964 1.9 P69P
Pinus banksiana, Sweetfern blister rust (*pinus*).
9686-68
EFFECT OF DETERGENTS ON PLANT VIRUS INFECTION.
R W Fulton
J Sci Food Agr 15(7):II-26-4, 12 REFS.
Jul 1964 382 S012
Detergents, Virus diseases (plants).
9687-68
PURIFICATION AND SOME PROPERTIES OF TOBACCO STREAK AND TULARE APPLE MOSAIC VIRUSES.
R W Fulton
Virology 32(1) 0153-162 REF
May 1967 448.8 V81
Mercaptoethanol, 2-, Mosaic (apples), Tobacco, Virus diseases (plants).
Abstract
9688-68
POTATO WART PERSISTS IN WEST VIRGINIA.
M E Gallegly
Plant Dis Rep 48(6):468-469
15 Jun 1964 1.9 P69P
Wart (potatoes), West Virginia.
9689-68
APPLICATION OF PARTICLE-COUNTING TO A LEAFHOPPER-BORNE VIRUS.
R Gamez L M Black
Nature 215 (5097), 173-174 REF
08 Jul 1967 472 N21
Agallia constricta, Clover, Particle size determination, Virus diseases (plants).
9690-68
REEXAMINATION OF THE SEROLOGICAL RELATIONSHIP BETWEEN WOUND TUMOR VIRUS AND REOVIRUS.
R Gamez L M Black R MacLeod
Virology 32(1) 0163-165 REF
May 1967 448.8 V81
Agallia constricta, Insect vectors, Reoviruses, RNA viruses, Serological tests, Virus diseases (plants), Wound tumor virus.
9691-68
UNREPORTED POWDERY MILDEWS III.
M W Gardner
Plant Dis Rep 48(4):310
15 Apr 1964 1.9 P69P
Fungus diseases (plants).
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BIBLIOGRAPHY

20 9692-68

9692-68
TESTS OF SOIL FUNGICIDES UNDER UNIFORM CONDITIONS FOR
CONTROL OF COTTON DAMPING-OFF CAUSED BY RHIZOCTONIA SOLANI.
J D Gay
Plant Dis Rep 48(6):480-483, TABS.
15 Jun 1964 1.9 P69P
Chemical control (plant diseases), Damping-off (cotton),
Fungicides, Rhizoctonia solani.

9693-68
SITES OF FUNGAL INFECTION IN PEANUT KERNELS.
Phytopathology 55(5):499
May 1965 464.8 P56
Peanuts.

9694-68
PEANUT KERNEL INFECTION AND GROWTH IN VITRO BY FOUR FUNGI AT
VARIOUS TEMPERATURES.
Phytopathology 55(1):46-48, BIBL.
Jan 1965 464.8 P56
Aspergillus, Peanuts.

9695-68
DISTRIBUTION AND SIGNIFICANCE OF THE NEEDLE BLIGHT OF PINES
CAUSED BY DOTHISTROMA PINI IN NEW ZEALAND.
J W Gilmour
Plant Dis Rep 51(9):727, MAP REF
Sep 1967 1.9 P69P
Dothistroma, Fungus diseases (plants), Needle blight (pinus),
New Zealand, Pinus radiata, Plant disease resistance.
Dothistroma pini, the cause of a potentially dangerous
needle blight of pines, has been recorded in New Zealand.
it is believed to be a relatively recent introduction and
over the past 4 or 5 years large areas of the three most
important pine species, Pinus radiata, P. ponderosa and
P. nigra (laricio) have become infected. two significant
factors which may make chemical control economically practicable
are the promising results obtained in aerial spray
trials in heavily infected stands by a light schedule of
copper-based fungicides and the apparent high degree of
resistance shown by P. radiata over the age of 20 years.

9696-68
THE EFFECTS OF CLIMATE ON OCCURRENCE OF ANNOSUS ROOT-ROT IN
THINNED SLASH PINE PLANTATIONS.
J H Ginnis Jr
Plant Dis Rep 48(6):509-511
15 Jun 1964 1.9 P69P
Climate, Fomes annosus, Pinus elliottii.

9697-68
FIELD REACTION OF CERTAIN RICE VARIETIES TO THE HOJA
BLANCA VIRUSES.
J Gonzalez M Rosero F Estrada C F Krull C R Adair
Plant Dis Rep 48(6):462-465, TABS.
15 Jun 1964 1.9 P69P
Crop varieties, Hoja blanca (rice), Rice.

9698-68
PATHOGENICITY OF RHIZOCTONIA SOLANI ON LIMA BEAN SEEDLINGS.
E W Goth
Phytopathology 55(5):506
May 1965 464.8 P56
Lima beans, Pathogenicity, Seedlings.

9699-68
A NEW STREAK-PRODUCING VIRUS OF PEA RELATED TO RED CLOVER
VEIN MOSAIC VIRUS.
E W Goth R E Ford
Plant Dis Rep 48(6):494-498
15 Jun 1964 1.9 P69P
Peas, Streak (peas), Vein mosaic (red clover).

9700-68
EXPERIMENTS WITH CALCIUM CYANAMIDE AGAINST EYE-SPOT LODGING
OF WHEAT.
F Grossmann
J Sci Food Agr 12(3):I-126-5
Mar 1961 382 S012
Calcium cyanamide, Eyespot (wheat).

9701-68
THE EFFICACY OF GLYODIN PLUS DODINE ON THE CONIDIA OF
VENTURIJA INAEQUALIS.
A B Groves
Phytopathology 55(5):503
May 1965 464.8 P56
Apples, Captan, Conidia, Dodecylguanidine acetate, Dodine,
Glyodin, Scab (apples), Venturia.

9702-68
VIRUS-FUNGUS RELATIONSHIPS IN A ROOT ROT COMPLEX IN RED
CLOVER.
J W Guthrie
Plant Dis Rep 48(9):723-727, TABS.
15 Sep 1964 1.9 P69P
Red clover, Root rot (red clover), Symbiosis.

9703-68
CORN TREATMENT FOR CONTROL OF FUSARIUM DISEASE OF GLADI-
OLUS.
F A Haasis
J Sci Food Agr 15(7):II-25-6
Jul 1964 382 S012
Dowicide B, Fusarium, Gladiolus.

9704-68
BLUEBERRY ROOT-ROT CAUSED BY PHYTOPHTHORA CINNAMOMI IN
NORTH CAROLINA.
F A Haasis
Plant Dis Rep 48(6):460-461
15 Jun 1964 1.9 P69P
Blueberries, North Carolina, Phytophthora cinnamomi,
Root rot (blueberries).

9705-68
OCCURRENCE OF A NEW VIRUS DISEASE OF CORN IN CALIFORNIA.
D H Hall D E Purcifull
Plant Dis Rep 48(10):749
15 Sep 1964 1.9 P69P
California, Corn.

9706-68
OAK WILT IN TEXAS.
R S Halliwell
Plant Dis Rep 48(5):419
15 May 1964 1.9 P69P
Ceratocystis fagacearum, Quercus, Texas.

9707-68
A RINGSPOT DISEASE OF PEANUTS.
R O Hammons G Sowell
Plant Dis Rep 48(9):729
15 Sep 1964 1.9 P69P
Peanuts.

9708-68
THE ALUMINUM-CAP METHOD FOR TESTING SUGARCANE VARIETIES
AGAINST LEAF SCALD DISEASE.
Phytopathology 55(3):317-319, PL.
Mar 1965 464.8 P56
Leaf scald (sugarcane), Saccharum, Sugarcane, Xanthomonas.

9709-68
SPRAY DEPOSITION AND ADHESION IN RELATION TO LEAF CHARACTER.
O K Hedden
J Sci Food Agr 15(9):II-126-1
Sep 1964 382 S012
Copper sulfate, Leaves, Spraying.

9710-68
EFFECT OF STRIPE RUST ON YIELD AND ITS COMPONENTS OF SIX
WINTER WHEAT VARIETIES.
E R Hehn
Plant Dis Rep 51(8): 702-705
Aug 1967 1.9 P69P
Crop losses, Crop varieties, Crop yields,
Fungus diseases (plants), Stripe rust (wheat), Wheat.
The effect of stripe rust on the yield of six commercial
varieties of winter wheat was measured. Cheyenne is used as
a resistant check in the study. a yield loss of 28.8 percent
was measured in the variety Westmont ht Kalispell. itana
yield loss was calculated at 20.0 percent in Bozeman. the
major causes of yield loss were, reduction in 100 kernel
weight and number of fertile secondary florets.

9711-68
IN VITRO EFFECTS OF FIFTY PESTICIDAL SUBSTANCES ON AN
ISOLATE OF CYTOSPORA CINCTA FROM ITALIAN PRUNE.
A W Helton
Phytopathology 55(4):382-386
Apr 1965 464.8 P56
Cytospora, Pesticides, Prunes.

9712-68
TOMATO VARIETIES RESISTANT OR SUSCEPTIBLE TO FUSARIUM
OXYSPORUM F. LYCOPERSICI, RACE 1.
W R Henderson
Plant Dis Rep 48(9):690-691

BIBLIOGRAPHY

20 9734-68

15 Sep 1964 1.9 P69P
Fusarium, Host indexing (plants), Plant disease resistance, Tomatoes.

9713-68
 AN ABNORMALITY RESEMBLING CORN STUNT IN LOUISIANA IN 1963.
 S D Bensley J D Candia T P Pirone
Plant Dis Rep 48(8):645-647
 15 Aug 1964 1.9 P69P
 Corn, Louisiana.

9714-68
 THE EFFECT OF HIGH TEMPERATURE AND HIGH RELATIVE HUMIDITY ON THE VIABILITY OF THE CONIDIA OF *VENTURIJA INAEQUALIS* ON NATURALLY INFECTED APPLE LEAVES.
 J W Heuberger
Phytopathology 55(5):503
 May 1965 464.8 P56
 Apples, Conidia, Humidity, Seed germination, Temperature, *Venturia*.

9715-68
 THE IDENTIFICATION OF *PSEUDOMONAS ANDROPOGONIS* AS THE CAUSE OF A FIRM ROT DISEASE OF THE TERETE VANDA ORCHID IN HAWAII.
 R B Bine S Goto
Plant Dis Rep 48(9):736-740
 15 Sep 1964 1.9 P69P
 Hawaii, Orchidaceae, *Pseudomonas*.

9716-68
 LOCALIZED INFECTION BY *HELMINTHOSPORIUM TURCICUM* ON CORN LEAVES.
 A L Hocker
Phytopathology 55(2):189-192, BIBL., PL.
 Feb 1965 464.8 P56
 Corn, *Helminthosporium*, Leaf blight (corn).

9717-68
 INCIDENCE OF BOTRYTIS GRAY MOLD OF TOMATO IN RELATION TO A CALCIUM-PHOSPHORUS BALANCE.
 C C Hortenstine J R Iley
Phytopathology 55(4):447-449
 Apr 1965 464.8 P56
 Calcium, Gray mold (tomatoes), Phosphorus, Tomatoes.

9718-68
 OCCURRENCE OF RUST ON GRAIN SORGHUM HYBRIDS AND VARIETIES IN NEW MEXICO.
 D C B Bsi
Plant Dis Rep 48(5):381
 15 May 1964 1.9 P69P
 New Mexico, Sorghum.

9719-68
 SYSTEMIC ANTIFUNGAL ACTIVITY OF ISOBUTYL O-COUMARATE IN APPLE.
 L D Bunter
J Sci Food Agr 15(7):II-23-5
 Jul 1964 382 S012
 Apples, *Venturia*.

9720-68
 SUPPRESSION OF PYTHIUM DEBARYANUM BY LYTIC RHIZOSPHERE BACTERIA.
 E Hurwitz
Phytopathology 55(2):156-158, BIBL.
 Feb 1965 464.8 P56
 Arthrobacter, Bacteria, *Pythium*.

9721-68
 PATHOLOGICAL ANATOMY OF APPLE TREES Affected BY THE STEM-PITTING VIREUS.
 F Hyland R C McCrum
Phytopathology 55(1):34-39, BIBL., PL.
 Jan 1965 464.8 P56
 Apples, Plant anatomy, Virus diseases (plants).

9722-68
 MAXIMUM ORCHARD SUSCEPTIBILITY OF PEAR AND APPLE VARIETIES TO FIREBLIGHT.
Plant Dis Rep 48(4):272-276
 15 Apr 1964 1.9 P69P
 Apples, Fire blight (apples), Fire blight (pears), Host indexing (plants), Pears.

9723-68
 INHERITANCE OF SUSCEPTIBILITY OF APPLE TO PODOSPHAERA LEUCOTRICHA.
Phytopathology 55(1):76-78, BIBL.
 Jan 1965 464.8 P56
 Apples, Plant disease resistance, *Podosphaera*, Powdery mildew (apples).

9724-68
 COMPARATIVE STUDIES OF THE REACTION OF PUCCINIA SORGHII ON DIFFERENT CORN RACES OF GUATEMALA.
Phytopathology 55(2):126
 Feb 1965 464.8 P56
 Corn, Guatemala, Plant disease resistance, *Puccinia*, Rust (corn).

9725-68
 NATURAL INFECTION OF IMPATIENS SULTANI WITH CUCUMBER MOSAIC VIRUS.
Plant Dis Rep 48(8):603-605
 15 Aug 1964 1.9 P69P
 Cucumbers, Mosaic (cucumbers).

9726-68
 BASIDIOSPORE INFECTION BY *PELICULARIA FILAMENTOSA* (-CORTICUM MICROSCLEROTIA), THE INCITANT OF WEB BLIGHT OF COMMON BEAN.
Phytopathology 55(6):698-699, BIBL., PL.
 Jun 1965 464.8 P56
 Beans, *Corticium*, *Pellicularia*, Web blight (beans).

9727-68
 SPINDLE GALL ON MAZZARD CHERRY ROOTS.
Plant Dis Rep 48(9):728
 15 Sep 1964 1.9 P69P
 Mazzard cherries, Roots.

9728-68
 SPECIMEN RECORD OF POPULAR SPOTTED ANTARACNOSE (SPHACELOMA) IN OKLAHOMA.
 A E Jenkins
Plant Dis Rep 51(9):785
 Sep 1967 1.9 P69P
 Anthracnose (*Populus*), Fungus diseases (plants), *Populus*, *Sphaceloma populi*.

9729-68
 ABSENCE OF APHID SPECIES SPECIFICITY FOR ACQUISITION AND TRANSMISSION OF A STRAIN OF BARLEY YELLOW DWARF VIRUS.
 G L Jensen
Plant Dis Rep 48(3):216-217
 15 Mar 1964 1.9 P69P
 Aphididae, Insect vectors, Yellow dwarf (barley).

9730-68
 A PHYSODERMA DISEASE OF NARROW-LEAVED VETCH.
 H W Johnson
Phytopathology 55(5):500
 May 1965 464.8 P56
Physoderma, Vetch.

9731-68
 SEED ROT AND SEEDLING TIP NECROSIS OF PEACH CAUSED BY A SPECIES OF PENICILLIUM.
 J D Johnson
Plant Dis Rep 48(2):136-138
 15 Feb 1964 1.9 P69P
 Necrosis, Peaches, *Penicillium*, Rot (peaches).

9732-68
 MINIMUM VALUES OF DEW PERIOD AND TEMPERATURE REQUIRED FOR INFECTION BY *PELICULARIA ORYZAE*.
 M W Jones
Phytopathology 55(5):503
 May 1965 464.8 P56
 Dew, Rice, Temperature.

9733-68
 CONTROL OF SUGAR BEET YELLOWS BY TREATMENT WITH SYSTEMIC INSECTICIDES.
 E Joseph
J Sci Food Agr 12(3):I-126-9
 Mar 1961 382 S012
 Ekatin, *Myzus*, Sugar beets, Yellows (beets).

9734-68
 A COMPARISON OF EIGHT FUNGICIDES APPLIED WITH OR WITHOUT LATEX FOR CONTROLLING TURF DISEASES.
 F V Juska
Plant Dis Rep 48(6):433-435

BIBLIOGRAPHY

20 9735-68

15 Jun 1964 1.9 P69P
Chemical control (plant diseases), Fungicides, Latex.

9735-68

BACTERIAL CROWN GALL DISEASE ON PLANTS GROWN IN KANSAS.
Plant Dis Rep 48(9):664-668
15 Sep 1964 1.9 P69P
Crown galls (plants), Kansas.

9736-68

SODIUM HYPOCHLORITE AS A DISINFECTANT OF PRUNING TOOLS FOR FIRE BLIGHT CONTROL.
L H Keil T Van Der Zwet
Plant Dis Rep 51 (9)0 753-755
Sep 1967 1.9 P69P
Antiseptics, Apples, Bacterial diseases (plants),
Erwinia amylovora, Fire blight (apples), Pruning,
Sodium hypochlorite, Tools.
A replicated greenhouse experiment demonstrated the efficacy of sodium hypochlorite (Clorox) solution to disinfect pruning shears. dipping contaminated shears into a 10 percent Clorox solution for as little as two seconds completely prevented the transfer of viable *Erwinia amylovora* bacteria to tender, susceptible Jonathan apple twigs cut with the shears. it is recommended to replace the dangerous mercurials normally used as disinfectants for pruning tools in fire blight control.

9737-68

NEEDLE BLIGHT OF RED CEDAR, JUNIPERUS VIRGINIANA, L., AND ITS CONTROL.
A Kelman C S Hodges H R Garriss
J Sci Food Agr 12(2) I-77-8
Feb 1961 382 S012
Phaltan.

9738-68

DISTRIBUTION OF DUTCH ELM DISEASE IN NORTH CAROLINA IN 1963.
A Kelman
Plant Dis Rep 48(7):578-580
15 Jul 1964 1.9 P69P
Dieback (ulmus), North Carolina, Ulmus.

9739-68

CONTROL OF CEROSPORA LEAF-SPOT OF BANANAS WITH APPLICATIONS OF OIL SPRAYS BASED ON THE DISEASE CYCLE.
H H Klein
J Sci Food Agr 12(2) I-76-5
Feb 1961 382 S012
Aerial spraying, Petroleum, Sigatoka (bananas).

9740-68

CONTROL OF VIRUS DISEASES OF CITRUS TREES -- AN EVALUATION OF METHODS.
L C Knoll
Phytopathology 55(6):675-680, BIBL. 679-680
Jun 1965 464.8 P56
Citrus, Plant disease control.

9741-68

NUCLEAR INCLUSIONS PRODUCED BY BEAN YELLOW MOSAIC VIRUS AS INDICATORS OF CROSS PROTECTION.
R Koenig
Phytopathology 55(2):242-243
Feb 1965 464.8 P56
Yellow mosaic (beans).

9742-68

A SPECIES OF PHYSODERMA PRESENT IN CITRUS AND RELATED SPECIES.
L E Kopf R E Johnson
Phytopathology 55(6):681-687, BIBL., PL.
May 1965 464.8 P56
Citrus, Physoderma.

9743-68

DUTCH ELM DISEASE IN KANSAS IN 1963.
C L Kramer H E Thompson
Plant Dis Rep 48(4):324
15 Apr 1964 1.9 P69P
Dieback (ulmus), Kansas.

9744-68

EXISTENCE OF PHYTOPHTHORA CINNAMOMI AS CHLAMYDOSPORES IN SOIL.
E G Kuhlman
Phytopathology 55(5):499
May 1965 464.8 P56
Phytophthora, Soils.

9745-68

SEED DEVELOPMENT IN TOMATOES INFECTED WITH TOMATO ASPERMY, ASPERMY-RELATED VIRUSES FROM CHRYSANTHEMUM, AND CUCUMBER MOSAIC VIRUS.
R H Lawson
Plant Dis Rep 51 (9)0 723-725
Sep 1967 1.9 P69P
Aspermy (tomatoes), Chrysanthemum, Mosaic (tomatoes), Plant disease transmission, Seed viability, Tomatoes, Virus diseases (plants).

The British type culture of tomato aspermy virus (TAV-B) completely suppresses development of viable seed in tomato fruits. infected tomato plants are stunted and show severe leaf distortion. in addition, some plants produce distorted fruits. three virus isolates from chrysanthemum that are serologically related to TAV-B do not completely inhibit development of viable seeds in tomato fruits. viable seeds were recovered from fruits from tomato plants infected with CMV-Y and CMV-I. none of the viruses tested was transmitted through the tomato seed. although chrysanthemum viruses related to TAV-B have been considered identical to the British type culture, none of the chrysanthemum isolates tested was a true tomato aspermy.

9746-68

LYSIS OF UREDOSPORE GERM TUBES OF RUSTS BY SPECIES OF VERTICILLIUM.
J A Leal J R Villanueva
Phytopathology
Jan 1965 464.8 P56
Lysis, Puccinia, Uredinales, Uredospores, Verticillium.

9747-68

THE RELATION BETWEEN THE BLACK SPOT DISEASE OF CITRUS AND FUMIGATION WITH HYDROCYANIC ACID.
Phytopathology 55(4):486, BIBL.
Apr 1965 464.8 P56
Black spot (citrus), Citrus, Fumigation, Hydrocyanic acid.

9748-68

WATER AND AERATION AS FACTORS IN ROOT DECAY OF CITRUS SINENSIS.
J Letey L J Klotz C K Labanauskas
Phytopathology 55(3):270-275
Mar 1965 464.8 P56
Aeration, Citrus, Water.

9749-68

EFFECTS OF TEMPERATURE ON DIBOTRYON MORBOSUM ASCOSPORE GERMINATION.
F H Lewis
Phytopathology 55(5):506
May 1965 464.8 P56
Culture media, Seed germination, Spores, Temperature.

9750-68

DEPTH OF PENETRANCE OF UROMYCES MUSCARI IN HYACINTH BULBS.
D P Lister
Plant Dis Rep 48(7):557
15 Jul 1964 1.9 P69P
Hyacinthus.

9751-68

A SELECTIVE HOST RANGE FOR CERTAIN MECHANICALLY TRANSMITTED STONE FRUIT VIRUSES.) 01(R C Lindner P W Cheney
Plant Dis Rep 51 (9): 786-790 REF
Sep 1967 1.9 P69P
Fruit, Host indexing (plants), Plant disease transmission. Washington Agricultural Experiment Stations, Tree Fruit Research Center, cooperating.

9752-68

CORN STUNT VIRUS DISEASE IN KENTUCKY.
F Loeffel J Shane
Plant Dis Rep 48(9):742
15 Sep 1964 1.9 P69P
Corn, Kentucky, Stunt (corn).

9753-68

AN EFFECTIVE PROCEDURE FOR THE MECHANICAL TRANSMISSION OF ONION YELLOW DWARF VIRUS.
J W Lorbeer
Phytopathology 55(2):129
Feb 1965 464.8 P56
Onions, Plant disease transmission.

BIBLIOGRAPHY

20 9776-68

9754-68
EFFECTIVENESS OF FUNGICIDES IN REDUCING SOFT ROT IN WASHED, CURED SWEETPOTATOES.
Plant Dis Rep 48(1):606-607
15 Aug 1964 1.9 P69P
Sweetpotatoes.

9755-68
CLUBCOT OF RUTABAGA IN LOUISIANA.
Plant Dis Rep 48(7):574
15 Jul 1964 1.9 P69P
Clubroot (brassica), Clubroot (rutabagas), Louisiana, Rutabagas.

9756-68
PHYSIOLOGICAL CHANGES WHICH PRECEDE VIRUS-INDUCED WILT OF TABASCO PEPPER.
Phytopathology 55(5):498
May 1965 464.8 P56
Etch (tobacco), Immunization, Tcbacco.

9757-68
ENZYME LEVELS IN TOBACCO LEAF TISSUES Affected BY THE WILDFIRE TOXIN.
L Lovrekovich
Phytopathology 55(5):519-524, BIBL. 523-524
May 1965 464.8 P56
Chlorosis (tobacco), Leaves, Metabolism, Tobacco, Wildfire (tobacco).

9758-68
INFECTION OF INFLORESCENCE OF PCA PRATENSIS BY HELMINTHOSPORIUM VAGANS.
R J Lukens
Plant Dis Rep 51 (9) 0 752
Sep 1967 1.9 P69P
Fungus diseases (plants), Helminthosporium vagans, Poa pratensis.

9759-68
FACTORS AFFECTING THE DISPERSAL OF LIQUID SEED DRESSINGS AMONG CEREAL SEEDS.
J E Machacek
J Sci Food Agr 15(7):II-22-3
Jul 1964 382 S012
Augers, Grain, Loading equipment, Seed treatment.

9760-68
THE OCCURRENCE AND DECLINE OF DOWNY MILDEW ON LIMA BEANS IN THE MIDDLE ATLANTIC STATES.
J Macleod J W Heuberger
Plant Dis Rep 48(4):316-317
15 Apr 1964 1.9 P69P
Downy mildew (lima beans), Lima beans.

9761-68
A NEW FRUIT SPOT OF CHILLIES FROM INDIA.
Plant Dis Rep 48(9):733-734
15 Sep 1964 1.9 P69P
Chilis, India.

9762-68
A NEW FRUIT SPOT OF ANNONA SQUAMOSA FROM INDIA.
Plant Dis Rep 48(5):399-401
15 May 1967 1.9 P69P
Custard apples.

9763-68
A NEW LEAF SPOT OF ROSE FROM INDIA.
Plant Dis Rep 48(5):397-399
15 May 1967 1.9 P69P
India, Rosa.

9764-68
RUSSET CRACK, A NEW VIRUS DISEASE OF SWEETPOTATOES.
W J Martin
Plant Dis Rep 48(3):149-151, PL.
15 Mar 1964 1.9 P69P
Russet crack (sweetpotatoes), Sweetpotatoes.

9765-68
AN ATTEMPT TO ESTIMATE LOSS CAUSED BY THE STRIPE DISEASE OF BARLEY.
S C Mathur G K Bajpai
Plant Dis Rep 48(9):708-710
15 Sep 1964 1.9 P69P
Barley, Plant injuries, Stripe mosaic (barley).

9766-68
DARK GREEN SPOTS FORMED ON LEAVES OF NICOTIANA GLUTINOSA BY TOBACCO MCSAIC VIRUS.
C Matsui
Phytopathology 55(4):484-485, BIBL., PL.
Apr 1965 464.8 P56
Mosaic (tobacco), Necrosis, Nicotiana, Tobacco.

9767-68
PHENOL OXIDASE ACTIVITY IN EXTRACTS OF RHIZOCTONIA SOLANI-INFECTED HYPOCOTYLS OF BEAN AND ITS DISTRIBUTION IN RELATION TO LESION AREAS.
D P Maxwell
Phytopathology 55(2):127
Feb 1965 464.8 P56
Beans, Phenolases, Plant extracts.

9768-68
INTERNATIONAL REGISTER OF PATHOGENIC RACES OF PUCCINIA CORONATA VAR. AVENAE.
L J Michel
Plant Dis Rep 48(10):763-766, BIBL. 766, TABS.
15 Oct 1964 1.9 P69P
Oats, Plant taxonomy, Puccinia.

9769-68
VIRUS GUMMOSIS OF MONTMORENCY CHERRY.
J A Milbrath M D Aichele
Plant Dis Rep 48(4):277-279
15 Apr 1964 1.9 P69P
Cherries, Gummosis (cherries).

9770-68
ASSOCIATION OF CELLULOLYTIC, PROTEOLYTIC, AND XYLOLYTIC ENZYMES WITH SOUTHERN ANTHRACNOSE, SPRING BLACK STEM, AND STEMPHYLIUM LEAF SPOT OF ALFALFA.
R L Millar
Phytopathology 55(3):356-360, BIBL. 360
Mar 1965 464.8 P56
Anthracnose (alfalfa), Leaf spot (alfalfa), Plant enzymes, Spring black stem (alfalfa).

9771-68
RELATIVE IMPORTANCE OF POLYGALACTURONATE TRANS-ELIMINASE AND OTHER PECTOLYTIC ENZYMES IN SOUTHERN ANTHRACNOSE, SPRING BLACK STEM, AND STEMPHYLIUM LEAF SPOT OF ALFALFA.
R L Millar
Phytopathology 55(3):346-355, BIBL. 354-355, TABS., PL.
Mar 1965 464.8 P56
Alfalfa, Anthracnose (alfalfa), Leaf spot (alfalfa), Pectinase, Pectins, Plant enzymes.

9772-68
VERTICILLIUM WILT OF STRAWBERRIES MADE WORSE BY SOIL FUNGICIDES THAT STIMULATE MEADOW NEMATODE POPULATIONS.
P M Miller
Plant Dis Rep 48(4):246-248, BIBL. 247-248
15 Apr 1964 1.9 P69P
Fungicides, Nematodes, Pratylenchus, Pratylenchus, Strawberries, Wilt (strawberries).

9773-68
HEAT THERAPY AS A METHOD FOR OBTAINING VIRUS-FREE CLONES OF APPLES.
D F Millikan
Plant Dis Rep 48(5):343
15 May 1964 1.9 P69P
Apples, Heat treatment, Virus diseases (plants).

9774-68
OBSERVATIONS ON THE APPEARANCE OF THE LITTLE LEAF (STUBBORN) DISEASE OF CITRUS.
Plant Dis Rep 48(10):761-762
15 Oct 1964 1.9 P69P
Citrus, Stubborn disease (citrus).

9775-68
TESTING FOR RESISTANCE OF AVOCADO TO PHYTOPHTHORA IN NUTRIENT SOLUTION.
S M Mircetich
Phytopathology 55(4):487-489, BIBL. 488-489, PL.
Apr 1965 464.8 P56
Avocados, Phytophthora, Plant disease resistance.

9776-68
SCLEROTINIA BLIGHT ON NUTGRASS IN MISSISSIPPI.
Plant Dis Rep 48(9):742
15 Sep 1964 1.9 P69P
Cyperus, Cyperus rotundus, Mississippi, Sclerotinia.

BIBLIOGRAPHY

20 9777-68

9777-68

INCIDENCE OF VIRUS DETECTION IN VEGETATIVELY PROPAGATED PLANT INTRODUCTIONS UNDER QUARANTINE IN THE UNITED STATES, 1957-1967.

A L Monroe W B Hewitt A C Goheen J M Wallace C N Boistacher E M Naver W L Ackerman H F Winters G A Seaton W A Pifer Plant Dis Rep 51 (9): 715-719 Sep 1967 1.9 P69P Citrus, Fruit, Host indexing (plants), Ipomoea, Ornamental plants, Plant introduction, Plant quarantine, Prunus, Solanum, Vegetables, Virus diseases (plants), Virus diseases (plants), Vitis.

9778-68

COMPARISON OF FIXED COPPER AND DODINE SPRAYS WITH VARIOUS ADDITIVES FOR CONTROL OF BACTERIAL SPOT, XANTHOMONAS VESICATORIA, OF PEPPER FRUIT.

A L Morehart J F Paniecki W Biehn J Sci Food Agr 15(7):II-25-9 Jul 1964 382 S012 Copper sulfate, Dodine, Xanthomonas.

9779-68

DIPHENYLAMINE COLOR REACTION OF LEAF EXTRACTS FROM PLANTS INFECTED WITH FCTATO LEAF-ROLL VIRUS.

W C Mueller J Sci Food Agr 15(7):II-26-5 Jul 1964 382 S012 Colorimetry, Diphenylamine, Leaf roll (potatoes), Leaves, Potatoes, Sugars.

9780-68

OCCURRENCE OF COLLETOTRICHUM GLOEOSPORIOIDES ON DWARF MISTLETOE (ARCEUTHOBIUM AMERICANUM) IN WESTERN CANADA.

J A Muir Plant Dis Rep 51 (9) 0 798-799 Sep 1967 1.9 P69P Arceuthobium americanum, Colletotrichum gloeosporioides, Fungus diseases (plants), Parasitic plants, Pinus contorta latifolia. Colletotrichum gloeosporioides Penz. sensus von Arx was recorded on Arceuthobium americanum Nutt. ex Engelm. from eastern British Columbia, Alberta, and Saskatchewan. It was also found coincident with the other hyperparasites Wallrothiella arceuthobii (Pk.) Sacc. and Septogloeum gillii Ellis at several localities.

9781-68

REDUCTION OF SEED-BORNE FUNGI BY ETHYLENE OXIDE, HOT AIR, AND VOLATILE CHEMICALS.

J J Natti Phytopathology 55(2):128 Feb 1965 464.8 P56 Air, Ethylene oxide, Seed-borne plant diseases, Volatile substances.

9782-68

NITROGEN SUPPLEMENT AS A POSSIBLE CONTROL FOR VERTICILLIUM WILT OF COTTON.

D C Neal J B Sinclair J Sci Food Agr 12(2) I-78-4 Feb 1964 382 S012 Sodium nitrate, Wilt (cotton).

9783-68

COPPER-ZINC CHROMATE AND DODINE SHOW PROMISE IN THE CONTROL OF BACTERIAL SPOT OF PEACH.

Plant Dis Rep 48(3):152-153 15 Mar 1964 1.9 P69P Bacterial spot (peaches), Dodine, Peaches.

9784-68

ADDITIONAL EVIDENCE OF TREE-TO-TREE TRANSMISSION OF SOUR CHERRY YELLOWS VIRUS BY POLLEN.

Phytopathology 55(4):482-483, BIBL. Apr 1965 464.8 P56

Cherries, Plant disease transmission, Pollen, Sour cherry yellows (cherries), Virus diseases (plants).

9785-68

LONGEVITY OF SOUR CHERRY YELLOW VIRUS IN INFECTED CHERRY SEEDS.

Plant Dis Rep 48(5):338-339 15 May 1964 1.9 P69P Sour cherries, Yellows (cherries).

9786-68

FUNGICIDAL ACTIVITY OF SOME NEW AMINO-ALCOHOLS SYNTHESISED FROM CITRUS (ELUS)-LIMONINE.

W F Newhall

J Sci Food Agr 12(1):I-54-4 Jan 1961 382 S012 Alcohols, Citrus.

9787-68

SEROLOGICAL DIFFERENCES BETWEEN APPARENTLY TYPICAL PEPPER AND TOMATO ISOLATES OF XANTHOMONAS VESICATORIA.

L M O'Brien D J Morton W J Manning R W Scheetz

Nature 215 (5100), 532-533

29 Jul 1967 472 N21

Fungus diseases (plants), Peppers, Serological tests, Tomatoes, Xanthomonas vesicatoria.

9788-68

WHEAT AND OAK DISEASES IN OHIO IN 1963.

Plant Dis Rep 48(6):487-488

15 Jun 1964 1.9 P69P

Ohio, Plant diseases, Quercus, Wheat.

9789-68

NEW CORN STUNT ISOLATES FROM FIELD-INFECTED CORN IN FLORIDA, LOUISIANA, AND MISSISSIPPI.

S W Orenski J Suykerbuyk

Phytopathology 55(2):129

Feb 1965 464.8 P56

Corn, Louisiana, Mississippi, Florida, Stunt (corn).

9790-68

MODE OF INFECTION AND PREVENTION OF DIPLODIA STEM-END ROT OF MANGO FRUITS (MANGIFERA INDICA).

V N Pathak D N Srivastava

Plant Dis Rep 51 (9) 0 744-746 REF

Sep 1967 1.9 P69P

Diplodia natalensis, Fungicides, Fungus diseases (plants), Mangoes, Plant disease transmission, Stem end rot (mangoes). The avenues of natural infection of uninjured mango fruits by spores of Diplodia natalensis P. Evans were the exposed surface of the attached pedicel or the stem-end scar when the pedicel was removed. Infection did not occur through the uninjured epicarp or sides of the pedicel. Unripe fruits with and without pedicels exposed in the orchard for 8 hours following harvest and later stored in cellophane bags in the laboratory showed 9 and 24 percent infection respectively, at ripening time when such fruits were put in cellophane bags immediately after harvest, they remained free from infection. Similarly, fruits with pedicels where the exposed ends of the latter were coated with a fungicidal paint immediately after harvest and exposed in the orchard for 8 hours failed to show any stem-end rot on ripening. Based on these studies, measures to prevent the disease have been suggested.

9791-68

EFFECT OF PHYTOTOXIC SUBSTANCES FROM DECOMPOSING PLANT RESIDUES ON ROOT ROT OF BEAN.

Z A Patrick

J Sci Food Agr 15(7):II-21-8

Jul 1964 382 S012

Beans, Fusarium, Plant residues, Poisons, Root rot (beans).

9792-68

CERATOCYSTIS CANKER OF ASPEN IN PENNSYLVANIA.

Plant Dis Rep 48(6):441

15 Jun 1964 1.9 P69P

Canker (populus), Ceratocystis fimbriata, Pennsylvania, Populus.

9793-68

PRESERVATION OF XANTHOMONAS ALBILINEANS ISOLATES IN DISTILLED WATER.

J E Perez A Cortes-Monllor

Plant Dis Rep 51 (9) 0 739

Sep 1967 1.9 P69P

Bacterial diseases (plants), Culture media, Distilled water, Puerto Rico, Sugarcane, Xanthomonas albilineans.

9794-68

ORCHARD EVIDENCE OF DIRECT PENETRATION OF REACH LEAF BLADES BY GERMINATING CONIDIA OF THE BROWN ROT FUNGUS.

D H Petersen N E McGlohon

Plant Dis Rep 51 (9) 0 750-751

Sep 1967 1.9 P69P

Brown rot (peaches), Fungus diseases (plants), Monilinia fructicola, Peaches.

9795-68

CARBOHYDRATE LIBERATION BY THE ROOTS OF RED CLOVER SEEDLINGS.

J L Peterson

Phytopathology 55(2):131

BIBLIOGRAPHY

20 9817-68

Feb 1965 464.8 P56
Carbohydrates, Red clover, Root rot (red clover).

9796-68
LEAF SPOT OF ANNUAL PHLOX CAUSED BY STEMPHYLIUM BOTRYOSUM.
J L Petersen
Plant Dis Rep 51 (9) 0 741-742
Sep 1967 1.9 P69P
Crop varieties, Fungus diseases (plants), Humidity, New Jersey, Phlox drummondii, Stemphylium botryosum. Light tan lesions on leaves of annual phlox plants were proved to be caused by Stemphylium botryosum. The disease is enhanced by periods of high humidity and can be severe if allowed to progress during these periods. Reduction of greenhouse humidity stops the disease spread. Differences in disease susceptibility were noted in four varieties of phlox.

9797-68
NON-ROSACEOUS HOSTS OF PHRAGMIDIUM (UREDINALES).
R S Peterson E A Cronin
Plant Dis Rep 51 (9) 0 766-767
Sep 1967 1.9 P69P
Agropyron, Fungus diseases (plants), Phragmidium, Pucciniaceae, Viola.

9798-68
TOXICITY OF PENTACBLORONITROBENZENE TO MAGNOLIA FUSCATA.
A G Plakidas
J Sci Food Agr 12(3):I-126-3
Mar 1961 382 S012
Magnolia, Pentachloronitrobenzene.

9799-68
ROOT-KNOT NEMATODES AS A PROBLEM ON THE GROUND COVER HYDROCOTYLE SIBTHORPIOIDES.
F A Pokorny
Plant Dis Rep 48(4):307
15 Apr 1964 1.9 P69P
Hydrocotyle, Nematodes.

9800-68
XIPHINEMA INDEX IN VINEYARD SOILS IN MENDOZA, ARGENTINE.
R E Pontis
Plant Dis Rep 48(5):373
15 May 1964 1.9 P69P
Argentina, Grapes, Xiphinema.

9801-68
SEROLOGICAL COMPARISON OF CRONARTIUM FUSIFORME, C. QUERCUM, AND C. RIBICOLA BY IMMUNODIFFUSION TESTS.
H R Powers Jr
Phytopathology 55(6):670-674, BIBL., TABS., PL.
Jun 1965 464.8 P56
Cronartium, Culture media.

9802-68
SOME DISEASES OF GUIZOTA ABYSSINICA IN ETHIOPIA.
Plant Dis Rep 48(9):672
15 Sep 1964 1.9 P69P
Ethiopia, Niger (plant).

9803-68
INHERITANCE AND LINKAGE OF A GENE DETERMINING RESISTANCE IN MAIZE TO AN AMERICAN RACE OF PUCCINIA POLYSORA.
Phytopathology 55(4):425-428, BIBL., TABS., PL.
Apr 1965 464.8 P56
Corn, Genes, Plant disease resistance, Puccinia.

9804-68
A NEW FUSARIUM WILT OF COFFEE (COFFEA ARABICA) IN SOUTH INDIA.
M J Rahman S Subramanian
Plant Dis Rep 51 (9) 0 758-759
Sep 1967 1.9 P69P
Fungus diseases (plants), Fusarium solani minus, Wilt (coffee). During an examination of diseased coffee plant material from private estates, a vascular wilt disease of coffee was noticed for the first time. The causal agent has been identified as Fusarium solani var. minus W., which is a new record.

9805-68
INTERACTION OF TWO PLANT VIRUSES AND THE CROWN GALL BACTERIUM IN TOBACCO.
S P Raychaudhuri
Phytopathology 55(2):130
Feb 1965 464.8 P56
Agrobacterium, Crown galls (tobacco),

9806-68
Mosaic (chilli redpeppers), Tobacco, Virus x (potatoes).
SCHIZOPHYLLUM COMMUNE FR. ISOLATED FROM STORED DOUGLAS-FIR CONES.
J H Rediske
Plant Dis Rep 48(3):234-235
15 Mar 1964 1.9 P69P
Fungus diseases (plants).

9807-68
DEW -- A PRINCIPAL MOISTURE FACTOR ENABLING EARLY BLIGHT EPIDEMICS IN A SEMIARID REGION OF ISRAEL.
I Reichert
Plant Dis Rep 48(3):211-215, TABS.
15 Mar 1964 1.9 P69P
Blight (potatoes), Dew, Early blight (potatoes), Israel, Potatoes, Tomatoes.

9808-68
ON THE TAXONOMIC POSITION OF THE WEST INDIA GHERKIN AND ITS REACTION TO THE CITRUS INFECTIOUS VARIEGATION VIRUS.
D A Reynolds
Plant Dis Rep 48(5):420
15 May 1964 1.9 P69P
Infectious variegation (oranges), Plant taxonomy.

9809-68
THE EFFECT OF FOUR ISOLATES OF LITTLE CHERRY VIRUS ON FRUIT SIZE.
J E Reynolds
Plant Dis Rep 48(2):124-126
15 Feb 1964 1.9 P69P
Little cherry (cherries), Mazzard cherries.

9810-68
OBSERVATIONS ON CHICKPEA RUST IN CENTRAL MEXICO.
E L Reynosa J Ortega
Phytopathology 55(2):125
Feb 1965 464.8 P56
Mexico, Stellaria media.

9811-68
ROLE OF THE R-GROUP IN THE FUNGITOXICITY OF R-SCC<3 COMPOUNDS.
S Rich J G Horsfall
Phytopathology 55(6):658-662, BIBL., TABS.
Jun 1965 464.8 P56
Fungicides, Toxicology.

9812-68
ANTIMICROBIAL ACTIVITY OF ORGANOGERMANIUM DERIVATIVES.
P Rijkens G M J van der Kerk A Manten
J Sci Food Agr 15(7):II-23-6
Jul 1964 382 S012
Bacteria, Germanium compounds, Yeasts.

9813-68
EVALUATING GENETIC POTENTIALS IN HELMINTHOSPORIUM TURCICUM.
A L Robert G F Sprague
Phytopathology 55(4):418-420
Apr 1965 464.8 P56
Helminthosporium, Plant genetics.

9814-68
DOWNY MILDEW AND HEAD SMUT DISEASES OF SORGHUM IN TEXAS.
D T Rosenow R W Berry M C Putrell
Plant Dis Rep 48 (4):249-253
15 Apr 1964 1.9 P69P
Downy mildew (sorghum), Head smut (sorghum), Sorghum, Texas.

9815-68
A RINGSOTP VIRUS DISEASE OF SKIMMIA SP..
Phytopathology 55(2):131
Feb 1965 464.8 P56

9816-68
THE POTENTIAL FUNCTION OF NATIVE THALICTRUM SPECIES AS AN ALTERNATE HOST OF PUCCINIA RECONDITA F. SP. TRITICI.
E E Saari B C Curtis
Phytopathology 55(5):502
May 1965 464.8 P56
Puccinia, Thalictrum.

9817-68
OCCURRENCE OF PERITRECIAL STAGE OF Erysiphe polygoni ON BRASSICA CAMPESTRIS VAR. SARSON AND B. JUNCEA.
H C Sankhla H G Singh G G Dalela R L Mathur
Plant Dis Rep 51 (9) 0 800
Sep 1967 1.9 P69P

BIBLIOGRAPHY

20 9818-68

Bird rape, *Erysiphe polygoni*, Mustard, Ponderay mildew (*Brassica*).

9818-68
THE CERCOSPORA-ALTERNARIA LEAF BLIGHT COMPLEX OF COTTON IN MISSOURI.
W P Sappenfield R D Hicks T E Wyllie
Plant Dis Rep 48(6):466-467
15 Jun 1964 1.9 P69P
Alternaria, Cercospora, Leaf blight (cotton), Missouri.

9819-68
EVALUATING FUNGICIDES FOR THE CONTROL OF RHIZOPUS BOLL ROT OF COTTON.
M M Satour
Plant Dis Rep 48(5):359-363, TABS.
15 May 1964 1.9 P69P
Boll rot (cotton), Fungicides, Rhizopus.

9820-68
PROPAGATION OF ERISYPHE GRAMINIS F. SP. TRITICI ON BARLEY AND ERISYPHE GRAMINIS F. SP. HORDEI ON WHEAT.
A L Scharen L W Greeley
Phytopathology 55(1):92-96, BIBL. 95-96, TABS.
Jan 1965 464.8 P56
Barley, Plant disease resistance, Wheat.

9821-68
E Schieber A E Rodriguez S Fuentes
Plant Dis Rep 48(6):425-427
15 Jun 1964 1.9 P69P
Mexico, Rust (corn).

9822-68
PHYTOPHTHORA SP. FROM WASHINGTON PATHOGENIC ON ROOTS OF RED RASPBERRY.
C D Schwartz
Phytopathology 55(5):503
May 1965 464.8 P56
Fungus diseases (plants), Necrosis, Phytophthora, Raspberries.

9823-68
RESULTS FROM GRAFTING CHLOROTIC DWARF AND HEALTHY EASTERN WHITE PINE.
C E Seliskar
Phytopathology 55(4):404-407
Apr 1965 464.8 P56
Chlorotic dwarf (*Pinus strobus*), Pinus, *Pinus strobus*, Plant grafting.

9824-68
ROOT-TO-ROOT SPREAD OF PSEUDOMONAS SOLANACEARUM.
L Sequeira
Phytopathology 55(3):304-309, BIBL. 308-309, TABS.
Mar 1965 464.8 P56
Pseudomonas, Roots.

9825-68
INFLUENCE OF MATERNAL TISSUE ON LOOSE SMUT INFECTION OF BARLEY KERNELS.
R G Shands
J Sci Food Agr 12(3):I-126-7
Mar 1961 382 SO12
Loose smut (barley), Plant physiology.

9826-68
BROOMRAPE ON BURLEY TOBACCO IN NORTH CAROLINA, 1963.
L Shaw
Plant Dis Rep 48(6):508
15 Jun 1964 1.9 P69P
Air-cured tobacco, North Carolina, Orobanche.

9827-68
ELECTRON MICROGRAPHIC EVIDENCE FOR SYSTEMIC WOUND TUMOR VIRUS INFECTION OF AN INSECT VECTOR.
E Shikata S W Orenski G Streissle
Phytopathology 55(2):129
Feb 1965 464.8 P56
Crimson clover, Electron microscopy, Insect vectors.

9828-68
RESISTANCE OF ASPARAGUS SPECIES TO FUSARIUM OXYSPORUM F. ASPARAGI.
P B Shoemaker
Plant Dis Rep 48(5):364-365
15 May 1964 1.9 P69P
Asparagus, Crop varieties, *Fusarium oxysporum*, Plant disease resistance.

9829-68
CONTROL OF ASPARAGUS RUST WITH A MIXTURE OF MANEB AND NICKEL SULFATE.
P B Shoemaker
Plant Dis Rep 48(6):436-437
15 Jun 1964 1.9 P69P
Maneb, Nickel sulfate, Rust (asparagus).

9830-68
EFFECTS PRODUCED IN COTTON FIBER BY BOLL-ROTTING SPECIES OF RHIZOPUS.
M E Simpson
Phytopathology 55(1):52-56, BIBL. 55-56, TABS.
Jan 1965 464.8 P56
Boll rot (cotton), Cotton, Rhizopus.

9831-68
INHIBITION OF XANTHOMONAS MALVACEARUM BY CERTAIN FUNGICIDES AND ANTIBIOTICS.
J B Sinclair
Plant Dis Rep 48(4):268-269
15 Apr 1964 1.9 P69P
Antibiotics, Chemical control (plant diseases).

9832-68
EFFECT OF FUNGICIDES AND ANTIBIOTICS ON XANTHOMONAS MALVACEARUM.
J B Sinclair
J Sci Food Agr 15(7):II-26-2
Jul 1964 382 SO12
Antibiotics, Fungicides, Xanthomonas.

9833-68
USE OF STAINS AND PATHOLOGICAL HISTOLOGY TO DETECT VIRUS INFECTION IN CITRUS.
J B Sinclair
Phytopathology 55(5):543-545, BIBL.
May 1965 464.8 P56
Citrus, Histology.

9834-68
EFFECT OF TEMPERATURE AND ORGANIC FUNGICIDES ON GROWTH OF THREE ISOLATES OF RHIZOCTONIA SOLANI IN VITRO.
J B Sinclair
Phytopathology 55(5):501
May 1965 464.8 P56
Culture media, Rhizoctonia, Temperature.

9835-68
REACTION OF RHIZOCTONIA ISOLATES TO CHEMICALS.
J B Sinclair
J Sci Food Agr 12(2): I-78-2
Feb 1961 382 SO12
Captan, Dichlone, Pentachloronitrobenzene.

9836-68
BAKANA AND FOOT ROT OF RICE IN UTTAR PRADESH, INDIA.
J Singh
Plant Dis Rep 48(5):340-342
15 May 1964 1.9 P69P
Bakanae disease (rice), India, Rice.

9837-68
BIOLOGICAL ACTIVITY OF BULBIFORMIN.
P Singh P K Sen Gupta M Mahmood B S Bajaj
J Sci Food Agr 15(7):III-21-6
Jul 1964 382 SO12
Bacillus, Fusarium, Legumes, Pigeonpeas, Soil amendments.

9838-68
INTERACTIONS OF VERTICILLIUM DAHLIAE AND PRATYLENCHUS MINUS IN VERTICILLIUM WILT OF PEPPERMINT.
C B Skotland
Phytopathology 55(5):583-586, BIBL.
May 1965 464.8 P56
Immunization, *Mentha*, *Pratylenchus*, *Verticillium*.

9839-68
CONTROL OF PEACH BACTERIA LEAF SPOT WITH SPRAYS OF OXYTETRACYCLINE PLUS DIMETHYL SULFOXIDE.
B C Smale B A Wilson
Phytopathology 55(5):505
May 1965 464.8 P56
Dimethyl sulfoxide, Leaf spot (peaches), Oxytetracycline, Peaches.

9840-68
CONTROL OF BLUE STAIN AT THETFORD CHASE, 1957.
D Small J N R Jeffers
J Sci Food Agr 12(2): I-77-9

BIBLIOGRAPHY

20 9863-68

Feb 1961 382 S012
Pinus, Santobrite.

9841-68
A BACTERIAL NECROSIS OF TOMATOES.
M A Smith
Plant Dis Rep 48(7):558-560
15 Jul 1967 1.9 P69P
Necrosis, Tomatoes.

9842-68
INFLUENCE OF ENVIRONMENTAL CONDITIONS ON THE DEVELOPMENT OF YELLOW SPOT DISEASE IN CRESS (*NASTURTIUM OFFICINALE*, R. BR.).
D Spire
J Sci Food Agr 12(2) I-77-5
Feb 1961 382 S012
Temperature, Watercress, Yellow spot disease.

9843-68
BIFUSSELLA CREPIDIFORMIS ON ENGELMANN SPRUCE.
J M Staley F G Hawksworth
Plant Dis Rep 51 (9) 0 791-792
Sep 1967 1.9 P69P
Bifusella crepidiformis, Fungus diseases (plants),
Picea engelmannii.
Colorado State University, cooperating.

9844-68
A LEAF SKELETONIZER, LOBESIA LIBIODENDRANA (KEARFOTT), CLETHREUTIDAE, ON MAGNOLIA GRANDIFLORA IN FLORIDA.
Fla Entomol 43(3):105-114
Sep 1960 420 F662
Magnolia, Moths.

9845-68
GREENHOUSE EVALUATION OF FRUIT FUNGICIDES IN 1963.
M Szkolnik J R Nevill
J Sci Food Agr 15(9):II-125-9
Sep 1964 382 S012
Fruit, Fungicides, Fungus diseases (plants).

9846-68
GREENHOUSE EVALUATION OF FRUIT FUNGICIDES IN 1963.
M Szkolnik J R Nevill
Plant Dis Rep 48(4):295-299, TABS.
15 Apr 1964 1.9 P69P
Fruit, Fungicides.

9847-68
GREENHOUSE EVALUATION OF FUNGICIDES FOR FRUIT.
M Szkolnik J R Nevill
J Sci Food Agr 15(7):II-22-11
Jul 1964 382 S012
Fruit, Fungicides, Fungus diseases (plants).

9848-68
A ROOT ROT OF SUGARCANE CAUSED BY PYTHIUM CATENULATUM IN TAIWAN.
Phytopathology 55(6):705-706, BIBL.
Jun 1965 464.8 P56
Pythium, Root rot (sugarcane), Sugarcane, Taiwan.

9849-68
CONTROL OF VERTICILLIUM WILT OF OLIVE THROUGH NATURAL RECOVERY AND RESISTANCE.
J B Taylor
Phytopathology 55(3):310-316
Mar 1965 464.8 P56
Olives, Plant disease control, Plant disease resistance, Verticillium.

9850-68
FUSARIUM WILT RESISTANCE IN SEEDLINGS AND MATURE PLANTS OF *MUSA* SPECIES.
Phytopathology 55(2):135-140, BIBL., TABS., PL.
Feb 1965 464.8 P56
Fusarium, Plant disease resistance.

9851-68
RHIZOCTONIA SEEDLING BLIGHT OF FLAX.
Phytopathology 55(5):498
May 1965 464.8 P56
Flax, Rhizoctonia, Seedlings, Texas.

9852-68
CONSISTENCY IN PERFORMANCE OF IN-COVERING SOIL FUNGICIDES FOR CONTROL OF THE COTTON SEEDLING DISEASE COMPLEX IN TEXAS.
Phytopathology 55(5):497

May 1965 464.8 P56
Captan, Cotton, Folpet, Pentachloronitrobenzene, Texas.

9853-68
CONTROL OF BLUEGRASS FOOT-ROT DISEASE WITH A SINGLE DRENCH OF FUNGICIDE.
Phytopathology 55(6):708, BIBL.
Jun 1965 464.8 P56
Helminthosporium, Poa, Spraying.

9854-68
ELIMINATION OF TURNIP MOSAIC VIRUS FROM A STOCK OF HORSERADISH.
Phytopathology 55(5):530-532, BIBL.
May 1965 464.8 P56
Horse-radish, Mosaic (turnips), Turnips.

9855-68
RESISTANCE TO VIRAL DISEASES IN TOBACCO.
Phytopathology 55(5):504
May 1965 464.8 P56
Plant disease resistance, Tobacco.

9856-68
ALTERNARIA AND CORYNESPORA BLIGHTS OF SESAME IN MISSISSIPPI.
C A Thomas
Plant Dis Rep 48(8):608-609
15 Aug 1964 1.9 P69P
Alternaria, Corynespora, Mississippi, Sesame.

9857-68
RELATION OF SEVERITY OF MAIZE LEAF BLIGHT, DUE TO HELMINTHOSPORIUM TURCICUM, WITH GENETICALLY CONTROLLED NUTRIENT ELEMENT CONTENT.
W I Thomas D E Baker C C Wernham
J Sci Food Agr 15(8):II-84-6
Aug 1964 382 S012
Calcium, Corn, Helminthosporium, Plant breeding, Plant disease resistance, Potassium, Zinc.

9858-68
BIOASSAY OF TURNIP MOSAIC VIRUS, MARMOR BRASSICAE H., FROM HORSE-RADISH.
B H Thornberry
Plant Dis Rep
15 Jun 1964 1.9 P69P
Biological assay, Horseradish, Mosaic (turnips).

9859-68
ADDITIONAL HOSTS OF SUGARCANE MOSAIC VIRUS.
R L Tippett
Plant Dis Rep 48(6):443-445
15 Jun 1964 1.9 P69P
Host indexing (plants), Mosaic (sugarcane).

9860-68
IDENTIFICATION, TRANSMISSION, AND DISTRIBUTION OF MAIZE DWARF MOSAIC IN TEXAS.
R W Toler C D Hobbs A J Bockholt
Plant Dis Rep 51 (9) 0 777-781
Sep 1967 1.9 P69P
Corn, Crop losses, Dwarf mosaic (field crops), Host indexing (plants), Insect vectors, Plant disease transmission, Plant genetics, Rhopalosiphum maidis, Sorghum, Virus diseases (plants).

9861-68
THE HYDROCYANIC ACID CONTENT OF FLAX IN RELATION TO FLAX WILT RESISTANCE.
E J Trione
J Sci Food Agr 12(2) I-77-2
Feb 1961 382 S012
Flax, Hydrocyanic acid, Wilt (flax).

9862-68
ANATOMY OF A LEAF STIPPLE DISORDER OF PEAR.
P W Tsao
Phytopathology 55(1):119-120, PL.
Jan 1965 464.8 P56
Pears, Plant anatomy.

9863-68
OAK WILT IN ARKANSAS (1950-1963).
M C Tucker J V Tiner
Plant Dis Rep 48(5):370-372
15 May 1964 1.9 P69P
Arkansas, Quercus, Wilt (quercus).

BIBLIOGRAPHY

20 9864-68

9864-68
FUSICOCCUM CANKER OF Highbush Blueberry in Michigan.
H C Tweedie
Plant Dis Rep 48(9):687-689
15 Sep 1964 1.9 P69P
Blueberries, Fusicoccum, Michigan.

9865-68
RELATIONSHIP OF FUNGI TO FLUORESCENCE IN WHEAT.
Plant Dis Rep 48(4):283-285, TABS.
15 Apr 1964 1.9 P69P
Fluorescence, Fungus diseases (plants), Wheat.

9866-68
PREVALENCE OF ALFALFA MOSAIC VIRUS IN ALFALFA IN MINNESOTA.
Plant Dis Rep 48(6):506-508
15 Jun 1964 1.9 P69P
Alfalfa, Minnesota, Mosaic (alfalfa).

9867-68
INSECT TRANSMISSION OF TRISTEZA VIRUS OF CITRUS IN FLORIDA.
Fla Entomol 45(3):103-107, 12 REFS.
Sep 1962 420 F662
Citrus, Insect vectors, Tristeza (citrus).

9868-68
MODIFICATIONS OF THE CORMACK AND LEBEAU TECHNIQUE FOR
INOCULATING WINTER WHEAT WITH SNOW MOLD CAUSING TYPHULA
SPECIES.
Plant Dis Rep 48(5):394-395
15 May 1967 1.9 P69P
Fungus diseases (plants), Wheat.

9869-68
SEEDLING RESISTANCE TO PUCCINIA CORONATA AVENAE RACE 264
FOUND IN AVENA STERILIS.
Phytopathology 55(6):700-701, BIBL.
Jun 1965 464.8 P56
Avena, Crown rust (oats), Oats, Seedlings.

9870-68
RELATIONSHIP BETWEEN THE RESPONSE OF OATS TO CROWN RUST AND
KERNEI DENSITY.
Phytopathology 55(5):579-582, BIBL.
May 1965 464.8 P56
Crown rust (oats), Oats.

9871-68
LABORATORY EVALUATION OF SEED TREATMENTS TO CONTROL RICE
SEED ROT.
Phytopathology 55(5):500
May 1965 464.8 P56
Rice, Seed treatment.

9872-68
GREENHOUSE CONTROL OF APHANMYCES ROOT ROT OF PEAS WITH
AMINOACIDIC ACID AND METHYLASPARTIC ACID.
Plant Dis Rep 48(7):537-541
15 Jul 1964 1.9 P69P
Aspartic acid, Chemical control (plant diseases),
Root rot (peas).

9873-68
THE RELIABILITY OF LEAF GRAFTING TO RUBUS HENRYI FOR THE
DETECTION OF TWO VIRUSES OF THE RASPBERRY MOSAIC COMPLEX.
Phytopathology 55(3):276-280, BIBL., PL.
Mar 1965 464.8 P56
Mosaic (raspberries), Plant grafting, Raspberries, Rubus.

9874-68
SOME NATIVE HOSTS OF THE ABUTILON WHITEFLY IN MARYLAND.
Plant Dis Rep 48(6):489-490
15 Jun 1964 1.9 P69P
Abutilon whitefly, Host indexing (plants), Maryland.

9875-68
ERADICATION OF LATENT C VIRUS IN THE SUWANNEE VARIETY OF
STRAWBERRY BY HEAT PLUS EXCISED RUNNER-TIP CULTURE.
Phytopathology 55(4):480-481, BIBL. 480-481
Apr 1965 464.8 P56
Culture media, Heat, Latent virus (strawberries),
Strawberries, Virus c (strawberries).

9876-68
HEAT TREATMENT FOR ELIMINATING INTERNAL CORK VIRUSES FROM
SWEETPOTATO PLANTS.
Plant Dis Rep 48(5):356-358
15 May 1964 1.9 P69P
Internal cork (sweetpotatoes).

9877-68
PUNCTURE METHOD FOR ISOLATING BACTERIAL BLIGHTS OF BEAN.
Phytopathology 55(5):504
May 1965 464.8 P56
Beans, Culture media, Halo blight (beans), *Pseudomonas*.

9878-68
HEAT CURE OF CARNATION VIRUSES.
Plant Dis Rep 48(2):143
15 Feb 1964 1.9 P69P
Dianthus, Heat.

9879-68
DIFFERENCES IN ROOT ROT REACTION IN TWO TYPES OF VEGETATIVE
PROPAULGES OF BIRDSFOOT TREFOIL.
Phytopathology 55(5):505
May 1965 464.8 P56
Birdsfoot trefoil.

9880-68
ETIOLOGY AND CONTROL OF ANGULAR LEAF SPOT OF TUNG: PRIMARY
INFECTION BY MYCOSPHAERELLA ALEURITIDES.
Phytopathology 55(5):502
May 1965 464.8 P56
Etiology, Leaf spot (tung), Tung oil tree.

9881-68
CORN STUNT DISEASE IN THE UNITED STATES THROUGH 1963.
Plant Dis Rep 48(8):640-644, BIBL.
15 Aug 1964 1.9 P69P
Corn, Stunt (corn), United States.

9882-68
SUGARCANE MOSAIC ON ST. AUGUSTINE GRASS IN FLORIDA.
Plant Dis Rep 48(6):442
15 Jun 1964 1.9 P69P
Mosaic (sugarcane), Florida, *Stenotaphrum secundatum*.

9883-68
PEA POD STREAK SYMPTOMS CORRELATED WITH TIME OF VIRUS
INFECTION.
Plant Dis Rep 48(7):564-566
15 Jul 1964 1.9 P69P
Streak (peas).

9884-68
STEM CANKER AND DIE-BACK OF RHODODENDRON CAUSED BY
BOTRYOSPHAERIA RIBIS GROSS. AND DVG.
Plant Dis Rep 48(3):207-210
15 Mar 1964 1.9 P69P
Rhododendron.

9885-68
A SURVEY OF CONIFEROUS FOLIAGE DISEASE (OTHER THAN RUSTS)
IN COLORADO.
Plant Dis Rep 48(7):562-563
15 Jul 1964 1.9 P69P
Colorado, Conifers, Plant diseases.

9886-68
DISTRIBUTION OF ASPEN CANKERS IN COLORADO.
Plant Dis Rep 48(8):610-614
15 Aug 1964 1.9 P69P
Canker (populus), Colorado, *Populus*.

9887-68
REACTIONS OF INTRODUCED SPECIES OF BROMUS TO PYRENOPHORA
BROMI.
Plant Dis Rep 48(5):402-405
15 May 1964 1.9 P69P
Bromus.

9888-68
GERMINATION AND GROWTH OF SCIRRHIA ACICOLA IN LIQUID
CULTURE INHIBITED BY CYCLOHEXIMIDE SEMICARBAZONE.
Plant Dis Rep 48(7):553-556
15 Jul 1964 1.9 P69P
Brown spot (*pinus palustris*), Cycloheximide, *Scirrhia acicola*.

9889-68
LANDPLASTER AND SOIL ROT OF PEANUT PODS IN VIRGINIA.
Plant Dis Rep 48(5):349-352
15 May 1964 1.9 P69P
Soil rot (peanuts), Virginia.

9890-68
THE PATTERN OF DECAYS AND DISCOLORATIONS IN NORTHERN
HARDWOODS.
Phytopathology 55(6):648-652, BIBL., PL.
Jun 1965 464.8 P56

BIBLIOGRAPHY

20 9916-68

Hardwoods, Wood decay.

9891-68 OBSERVATIONS ON TWO EPIPHYTICS OF DIPLOIDIA EAR ROT OF CORN IN INDIANA.
Plant Dis Rep 48(5):414-415
15 May 1964 1.9 P69P
Corn, Ear rot (corn), Indiana.

9892-68 RUST INFECTION AND HISTOLOGICAL RESPONSE OF SUSCEPTIBLE AND RESISTANT SAFFLOWER.
Phytopathology 55(3):296-301, BIBL. 301
Mar 1965 464.8 P56
Plant disease resistance, Plant histology, Rust (safflower), Safflower.

9893-68 BLISTER RUST FUNGUS ON LIMBER PINE IN NORTHERN WASATCH MOUNTAINS.
Plant Dis Rep 48(7):532
15 Jul 1964 1.9 P69P
Blister rust (pinus), Pinus flexilis.

9894-68 PATOGENICITY OF VERTICILLIUM ISOLATES TO SAFFLOWER.
Plant Dis Rep 48(6):456-457
15 Jun 1964 1.9 P69P
Safflower, Verticillium, Wilt (safflower).

9895-68 CHEMICAL CONTROL OF STRIPE RUST ON CMAR WHEAT.
Plant Dis Rep 48(3):162-166, BIBL. 166.
15 Mar 1964 1.9 P69P
Puccinia, Stripe rust (wheat), Wheat.

9896-68 INHIBITION OF WHEAT STRIP RUST THE ANTIBIOTIC PHLEOMYCIN IN THE GREENHOUSE.
Plant Dis Rep 48(3):159-161
15 Mar 1964 1.9 P69P
Phleomycin, Stripe rust (wheat), Wheat.

9897-68 A BACTERIAL LEAFSPOT OF PEPPER CAUSED BY PSEUDOMONAS SYRINGAE.
Plant Dis Rep 48(10):750-753
15 Oct 1964 1.9 P69P
Bacterial leaf spot (redpeppers), Piper nigrum, Pseudomonas.

9898-68 MULE'S EAR DISEASE OF PEACH IN COLORADO.
Plant Dis Rep 48(7):586-587
15 Jul 1964 1.9 P69P
Colorado, Mule's ear (peaches), Peaches.

9899-68 BEET PSEUDO-YELLOWS VIRUS, TRANSMITTED BY THE GREENHOUSE WHITEFLY (TRIALEURODES VAPORARIORUM).
Phytopathology 55(4):450-453, BIBL., TABS.
Apr 1965 464.8 P56
Sugar beets, Trialeurodes, Yellows (sugar beets).

9900-68 TRANSMISSION OF COMMON LETTUCE MOSAIC VIRUS THROUGH THE GAMETES OF THE LETTUCE PLANT.
Plant Dis Rep 48(7):522-523
15 Jul 1964 1.9 P69P
Lettuce, Mosaic (lettuce), Plant disease transmission.

9901-68 INFECTION OF CRANESBILL BY THE SOYBEAN PHYTOPHTHORA.
Plant Dis Rep 48(2):140-141
15 Feb 1964 1.9 P69P
Phytopathology, Phytophthora, Soybeans.

9902-68 PROGRESS OF OAK HEART ROT VARIES WITH HEIGHT IN TREE.
Plant Dis Rep 48(7):585
15 Jul 1964 1.9 P69P
Quercus.

9903-68 OUTBREAK OF CANKERS ON PLANTATION-GROWN COTTONWOODS IN MISSISSIPPI.
Plant Dis Rep 48(7):588
15 Jul 1964 1.9 P69P
Mississippi, Populus, Populus.

9904-68 COMPARISONS OF THREE SEROLOGICAL PROCEDURES FOR IDENTIFYING XANTHOMONAS VESICATORIA IN PEPPER LEAVES.
Phytopathology 55(4):421-424, BIBL., PL.
Apr 1965 464.8 P56
Redpeppers (vegetable), Serological tests, Xanthomonas.

9905-68 WILT OF MIMOSA WILT-RESISTANT CULTIVARS.
Plant Dis Rep 48(8):648
15 Aug 1964 1.9 P69P
Mimosa, Plant disease resistance.

9906-68 GRAIN DISCOLORATION IN BELLE PATNA RICE.
Plant Dis Rep 48(4):288-291
15 Apr 1964 1.9 P69P
Crop varieties, Helmintosporium oryzae, Rice.

9907-68 REACTION OF TRIFOLIUM SPECIES TO STEMPHYLIUM SARCINAE-FORMAE.
Plant Dis Rep 48(9):669-671
15 Sep 1964 1.9 P69P
Clover, Red clover, Stemphylium.

9908-68 BARLEY SCAB IN SOUTH KOREA IN 1963 AND 1964.
Plant Dis Rep 48(10):754-755
15 Oct 1964 1.9 P69P
Barley, Korea.

9909-68 DISTRIBUTION OF RADIOSULFUR IN OAT PLANTS INOCULATED WITH LABELED CROWN-RUST SPORES.
Phytopathology 55(5):499
May 1965 464.8 P56
Crown rust (oats), Immunization, Oats, Radioactive tracers, Spores.

9910-68 DERMATOPHORA ROOT ROT OF HYPERICUM IN CALIFORNIA.
Plant Dis Rep 48(2):139
15 Feb 1964 1.9 P69P
California, Hypericum.

9911-68 TRANSLOCATED EFFECTS OF TWO FUNGUS INFECTIONS OF BEAN.
Phytopathology 55(3):330-332
Mar 1965 464.8 P56
Beans, Plant translocation, Powdery mildew (beans), Rust (beans).

9912-68 RELATIVE FREQUENCY OF LESIONS ON BEANS INCITED BY COMMON SOIL-BORNE PATHOGENS.
Phytopathology 55(2):126
Feb 1965 464.8 P56
Beans, Fusarium, Lesions, Phytophthora, Pythium, Thielaviopsis.

9913-68 FIELD AND GREENHOUSE EXPERIMENTS FOR CONTROL OF RHIZOCTONIA ROOT ROT OF SNAPBEAN.
Phytopathology 55(5):503
May 1965 464.8 P56
Beans, Fungus diseases (plants), Greenhouse culture, Rhizoctonia, Root rot (beans).

9914-68 KALOTERMES APPROXIMATUS SNYDER INFESTS ROSEACEOUS TREES (ISOPTERA: KALOTERMITIDAE).
Fla Entomol 44(1):53-54, 5 REPS.
Mar 1961 420 P662
Prunus serotina, Termites.

9915-68 ISOLATION OF TOBACCO RATTLE VIRUS FROM TRANSVAAL DAISY, GERBERA JAMESONII.
Phytopathology 55(5):501
May 1965 464.8 P56
Necrosis, Rattle disease (tobacco), Tobacco.

9916-68 A SUGGESTION THAT THE LEE TANGERINE MAY BE HYPERSENSITIVE TO CEPHALEUROPS VIRESCENTS.
Plant Dis Rep 48(6):478-479
15 Jun 1964 1.9 P69P
Crop varieties, Mandarin oranges.

BIBLIOGRAPHY

20 9917-68

9917-68
 CONTROL OF SOME INSECTS ATTACKING CELERY IN THE EVERGLADES.
Fla Entomol 44(1):25-33, 6 REFS.
 Mar 1961 420 F662
 Aphidiidae, Celery, Diazinon, Endosulfan, Liriomyza, Myzus,
 Parathion, Toxaphene.

9918-68
 GLIOCLADIUM DISEASE OF PALM IN DADE COUNTY, FLORIDA.
Plant Dis Rep 48(9):718
 15 Sep 1964 1.9 P69P
 Gliocladium, Palmae, Florida.

9919-68
 SEASONAL POPULATIONS OF CITRUS INSECTS AND MITES IN
 COMMERCIAL GROVES.
Fla Entomol 43(2):49-57, 3 REFS.
 Jun 1960 420 F662
 Citrus, Diptera, Insect outbreaks, Mites.

9920-68
 AN EPIPHYTIC OF ANGULAR LEAFSPOT OF FLUE-CURED TOBACCO IN
 GEORGIA IN 1963.
Plant Dis Rep 48(5):418
 15 May 1964 1.9 P69P
 Angular leafspot (tobacco), Georgia.

9921-68
 THE EFFECTS OF HUMIDITY AND TEMPERATURE ON PHYTOPHTHORA
 BLIGHT OF TARO.
Phytopathology 55(2):183-188, BIBL., PL.
 Feb 1965 464.8 P56
 Blight (taro), Humidity, Phytophthora, Temperature.

9922-68
 THE ROLE OF PYTHIACEOUS FUNGI IN THE PAPAYA REPLANT PROBLEM
 IN HAWAII.
Phytopathology 55(2):126
 Feb 1965 464.8 P56
 Hawaii, Papayas.

9923-68
 THE OCCURRENCE OF A SCLEROTINA ON Vicia villosa IN
 MARYLAND.
Plant Dis Rep 48(9):696-697
 15 Sep 1964 1.9 P69P
 Hairy vetch, Maryland, Sclerotinia, Vetch.

9924-68
 HEAT-INDUCED SUSCEPTIBILITY OF SOYBEANS TO NONPATHOGENIC
 FUNGI.
Phytopathology 55(5):505
 May 1965 464.8 P56
 Aspergillus, Fusarium, Heat, Phytophthora, Soybeans.

9925-68
 ANTECEDENT NITROGEN SOURCES AFFECTING VIRULENCE OF COLLETO-
 TRICHUM PHOMOIDES.
Phytopathology 55(3):333-335
 Mar 1965 464.8 P56
 Aspartic acid, Colletotrichum, Sodium nitrate.

9926-68
 EXPERIMENTAL INFECTION OF NICOTIANA SPECIES AND
 INTERSPECIFIC CROSSES WITH CERCOSPORA NICOTIANAE AND
 CERCOSPORA KIKUCHII.
Plant Dis Rep 48(9):693-695
 15 Sep 1964 1.9 P69P
 Cercospora, Frogeye (tobacco), Tobacco, Tobacco.

9927-68
 GERMINATION INHIBITORS FROM SPORES OF RUST AND SMUT FUNGI.
Phytopathology 55(5):505-506
 May 1965 464.8 P56
 Seed germination, Spores, Uredinales, Ustilaginales.

9928-68
 NATURAL INFECTION OF BUISMAN ELM BY CERATOCYSTIS ULMI.
Phytopathology 55(2):130
 Feb 1965 464.8 P56
 Ceratocystis, Dieback (ulmus), Ulmus.

9929-68
 DIFFERENTIAL GROWTH OF CERTAIN PATHOGENIC FUNGI ON EXTRACTS
 FROM VIRUS-INFECTED AND VIRUS-FREE APPLE AND PEAR TISSUES.
Phytopathology 55(2):127
 Feb 1965 464.8 P56
 Apples, Pears.

9930-68
 A RADIOAUTOGRAPHIC STUDY OF THE FORMATION OF LOCAL LESIONS
 BY TOBACCO MOSAIC VIRUS.
Phytopathology 55(5):558-562, BIBL., PL.
 May 1965 464.8 P56
 Autoradiography, Mosaic (tobacco), Nicotiniana, Tobacco.

9931-68
 EFFECTS OF HAIL DAMAGE ON YIELD AND STALKROT INFECTION IN
 CORN.
Plant Dis Rep 48(3):169
 15 Mar 1964 1.9 P69P
 Corn, Hail, Plant injuries, Stalk rot (corn).

9932-68
 TOLERANCE OF PSEUDOMONAS GLYCINEA TO FREEZING.
Phytopathology 55(4):415-417, BIBL.
 Apr 1965 464.8 P56
 Freezing, Pseudomonas.

9933-68
 FIELD CONTROL OF TOBACCO BROWN SPOT WITH FUNGICIDES.
Phytopathology 55(5):500
 May 1965 464.8 P56
 Alternaria, Brown spot (tobacco), Tobacco, Tobacco.

9934-68
 RESPIRATORY ENZYMIC ACTIVITIES IN THE HOST AND PATHOGEN OF
 BARLEY LEAVES INFECTED WITH ERYSPHAE GRAMINIS.
Phytopathology 55(4):438-441, BIBL. 440-441, TABS.
 Apr 1965 464.8 P56
 Barley, Erysiphe, Plant enzymes, Plant hosts,
 Plant respiration.

9935-68
 RESPONSE OF MALUS SPECIES AND VARIETIES AS POTENTIAL
 INDICATORS TO LATENT POME VIRUS CULTURES.
Phytopathology 55(5):504
 May 1965 464.8 P56
 Apples, Latent virus (apples), Malus.

9936-68
 USE OF ARIZONA CLIMATE TO INDUCE CHARCOAL ROT IN GRAIN
 SORGHUM.
 R L Voigt F M Carasso
Plant Dis Rep 48(4):300-302, TABS.
 15 Apr 1964 1.9 P69P
 Arizona, Charcoal rot (sorghum), Sorghum.

9937-68
 BACTERIAL BLIGHT OF WISCONSIN CANNING PEAS IN 1963.
 E K Wade
Plant Dis Rep 48(4):318-320
 15 Apr 1964 1.9 P69P
 Bacterial blight (peas), Wisconsin.

9938-68
 COOL WEATHER IN 1964 IN CONNECTICUT FAVORED POTATO WILT BY
 NON-MICROSCLEROTIAL VERTICILLIUM.
 P E Waggoner
Phytopathology 55(2):128
 Feb 1965 464.8 P56
 Connecticut, Potatoes, Verticillium, Weather, Wilt (potatoes).

9939-68
 CONTROL OF FUSARIUM WILT IN GREENHOUSE TOMATOES.
 I Wahi
J Sci Food Agr 15(7):II-25-5
 Jul 1964 382 S012
 Chloropicrin, Fusarium, Methyl bromide, Tomatoes.

9940-68
 COPPER FUNGICIDES. XII. ABSORPTION OF COMPLEXES BY LEAVES.
 R L Wain
J Sci Food Agr 15(7):II-21-1
 Jul 1964 382 S012
 Absorption (biological), Copper, Fungicides, Leaves.

9941-68
 ADDITIONS TO THE HOST RANGE OF DWARF BUNT.
 J T Waldher
Plant Dis Rep 48(7):575-577
 15 Jul 1964 1.9 P69P
 Host indexing (plants), Stinking smut (wheat), Wheat.

9942-68
 BACTERIAL BROWN SPOT OF BEAN IN CENTRAL WISCONSIN.
 J C Walker D J Bagedorn C D Garcia M Telliz-Ortiz
Plant Dis Rep 48(5):335-337
 15 May 1964 1.9 P69P

BIBLIOGRAPHY

20 9962-68

Bacterial brown spot (beans), Wisconsin.

9943-68 CITRUS LEAF-MOTTLE-YELLOWS DISEASE IN THE PHILIPPINES AND TRANSMISSION OF THE CAUSAL VIRUS BY A PSYLLID, DIAPBORINA CITRI. J M Wallace Plant Dis Rep 51 (8) : 692-695 REF Aug 1967 1.9 P69P Aphididae, Citrus, Insect vectors, Philippine Islands, Plant disease transmission, Psyllidae, Tristeza (citrus), Virus diseases (plants). Although tristeza virus and the tristeza-seedling yellow virus complex is generally present in Philippine citrus, the widespread decline of citrus trees consisting of stionic combinations that are tolerant of these viruses elsewhere suggested that another virus is responsible for the serious tree losses that have occurred in the past 10 years from a disorder known locally as leaf-mottle-yellows disease. Investigations have revealed that this assumption is correct. most of the virus-induced decline of citrus trees in the Philippines results from the presence of a virus that apparently is distinct from tristeza virus. It has been demonstrated that this virus is transmitted by the psyllid, Diaphorina citri. Among citrus species and varieties there appears to be little resistance or tolerance to the leaf-mottle-yellows disease a wide range of both seedlings and budded combinations are affected. There is a probability the likubin disease in Taiwan is the same as leaf-mottle-yellows and the Philippine disorder is similar in many respects to the greening disease in South Africa which is also transmitted by psyllids ...

9944-68 INTERNAL BROWNING OF TOMATO FRUITS AS INFLUENCED BY FOUR GROWTH REGULATORS. Plant Dis Rep 48(7):528 15 Jul 1964 1.9 P69P Internal browning (tomatoes), Plant disease control.

9945-68 THE EFFICACY OF VARIOUS FUMIGANTS IN CONTROLLING VERTICILLIUM WILT IN SOUTH-CENTRAL WASHINGTON. Plant Dis Rep 48(6):502-505 15 Jun 1964 1.9 P69P Fungicides, Verticillium, Washington.

9946-68 ROYAL (BLENHEIM) APRICOTS, A SYMPTOMLESS RESERVOIR OF THE TWISTED LEAF VIRUS OF SWEET CHERRY. Plant Dis Rep 48(7):548 15 Jul 1964 1.9 P69P Apricots, Cherries, Twisted leaf (cherries).

9947-68 FACTORS AFFECTING FUNGICIDAL CONTROL OF DOWNTY MILDEW ON BROCCOLI BEADS. Plant Dis Rep 48(8):593-596 15 Aug 1964 1.9 P69P Broccoli, Chemical control (plant diseases), Copper, Downy mildew (broccoli), Maneb.

9948-68 PSEUDOMONAS CICHORII, THE CAUSE OF BACTERIAL BLIGHT OF CELERY IN THE EVERGLADES. C Wehblurg Phytopathology 55(5):554-557, BIBL., PL. May 1965 464.8 P56 Bacterial blight (celery), Celery, Everglades, Pseudomonas.

9949-68 INHERITANCE OF RESISTANCE TO STEMPHYLIUM SOLANI IN BLUE LUPINE ENDIMIC TO PORTUGAL. H D Wells J R Edwardson Phytopathology 55(6):627-628, BIBL. Jun 1965 464.8 P56 Blue lupine, Inheritance, Lupine, Plant disease resistance, Stemphylium.

9950-68 ROSELINA HERPOTRICOIDES ON SITKA SPRUCE SEEDLINGS IN WASHINGTON. Plant Dis Rep 48(6):512-513 15 Jun 1964 1.9 P69F Picea sitchensis, Washington.

9951-68 INFLUENCE OF SOIL REACTION AND MINERAL FERTILIZATION ON NUMBERS AND TYPES OF FUNGI ANTAGONISTIC TO FOUR SOIL-BORNE PLANT PATHOGENS. L E Williams Phytopathology 55(5):570-574, BIBL. 573-574 May 1965 464.8 P56 Soil fertility, Soil hydrogen-ion concentration.

9952-68 THE EFFECTS OF TEMPERATURE AND LEAF AGE ON THE DEVELOPMENT OF LESIONS CAUSED BY PERONOSPORA MANSHURICA ON SOYBEANS. L F Williams Phytopathology 55 (2):166-170, BIBL., PL. Feb 1965 464.8 P56 Leaves, Peronospora, Soybeans, Temperature.

9953-68 DE IEP GROENEVELD - THE GROENEVELD ELM. Plant Dis Rep 48(3):187-189 15 Mar 1964 1.9 P69P Plant disease resistance, Ulmus. Translated by F. W. Holmes.

9954-68 BRANCH WILT DISEASE OF FIG CAUSED BY HENDERSONULA TORULOIDEA. E E Wilson J R Davis Plant Dis Rep 48(2):142 15 Feb 1964 1.9 P69P Figs, Hendersonula.

9955-68 PATHOGENIC COMPARISONS OF THREE NEW AND FOUR PREVIOUSLY DESCRIBED RACES OF GLOMERELLA CINGULATA VAR. ORBICULARE. N N Winstead C L McCombs Plant Dis Rep 48(7):619-621 15 Aug 1964 1.9 P69P Glomerella, Host indexing (plants).

9956-68 INOCULATION OF 1-YEAR-OLD TWIGS OF RED OAKS WITH CERATO-CYSTIS FAGACEARUM. F A Wood F W Cobb Phytopathology 55(2):131 Feb 1965 464.8 P56 Ceratocystis, Immunization.

9957-68 EFFECT OF ENVIRONMENT AND NUTRITION OF PATHOGEN AND HOST IN THE DAMPING OFF OF SEEDLINGS BY RHIZOCTONIA SOLANI. R K S Wood J Sci Food Agr 15(7):II-19-9 Jul 1964 382 S012 Damping-off (cauliflower), Damping-off (lettuce), Plant disease resistance, Plant nutrition, Rhizoctonia.

9958-68 DECAY OF WOOD BY DIKARYOTIC, MONOKARYOTIC, AND ILLEGITIMATE HETEROCARYOTIC ISOLATES OF TRAMETES HISPIDA. Phytopathology 55(2):130 Feb 1965 464.8 P56 Populus, Wood decay.

9959-68 INFLUENCE OF PINOSYLVINS AND BORAX ON GROWTH OF FOMES ANNOSUS. Phytopathology 55(2):129 Feb 1965 464.8 P56 Borax, Fomes, Pinosylvine, Pinus.

9960-68 CONTROL OF ALGAE ON FINE-LEAF TURFGRASSES WITH A COORDINATION PRODUCT OF ZINC ION AND MANEB. H C Young Jr J M Vargas Jr Phytopathology 55(5):501-502 May 1965 464.8 P56 Algae, Maneb, Zinc salts.

9961-68 THE ROLE OF PREPLANTING TREATMENTS WITH CHEMICALS IN INCREASING THE INCIDENCE OF CROWN GALL. R A Young Phytopathology 55(2):212-216, BIBL., TABS. Feb 1965 464.8 P56 Captan, Mazzard cherries, Oxytetracycline.

9962-68 NECROTIC LOCAL LESION FORMATION BY TOBACCO MOSAIC VIRUS. M Zaitlin Phytopathology 55(5):502 May 1965 464.8 P56 Mosaic (tobacco), Necrosis, Nicotiana, Tobacco.

BIBLIOGRAPHY

20 9963-68

Arthropods

9963-68

DETECTION OF PHYTOPHAGOUS CHALCIDOIDS IN SEEDS FOR QUARANTINE PURPOSES.
Indian J Entomol 29(2):0197-199
Jun 1967 420 IN23
Chalcidoidea, Coriander, *Foeniculum vulgare*, Insect detection, Plant quarantine, Seeds, *Systole albipennis*, X-rays. Abstract

9964-68

INSECTICIDES AS A FACTOR IN POPULATION FLUCTUATIONS OF MITES ON LUCERNE.
J Sci Food Agr 15(9):II-125-10
Sep 1964 382 SO12
Alfalfa, Ddt, Dieldrin, Mites, Schradan.

9965-68

THE RELATIONSHIP OF A SCALE INSECT TO DEATH OF BERMUDA GRASS IN ARKANSAS.
Plant Dis Rep 48(3):228
15 Mar 1964 1.9 P69P
Coccoidea, Plant injuries.

9966-68

SPRINKLER IRRIGATION AS A MEANS OF APPLYING SOIL INSECTICIDES FOR THE CONTROL OF THE TUBER FLEA BEETLE, *EPITRIX TUBERIS*, (GENT.), IN THE INTERIOR OF BRITISH COLUMBIA.
J Sci Food Agr 12(3):I-127-3
Mar 1961 382 SO12
Dieldrin, Epitrix, Insecticide application.

9967-68

PENETRATION OF SEEDS BY ACETONE SOLUTES.
J Sci Food Agr 15(7):II-22-4
Jul 1964 382 SO12
Acetone, Barley, Ddt, Oats, Seed treatment, Wheat.

9968-68

COMBATING RED SPIDER MITES.
J Sci Food Agr 12(1) I-24-2
Jan 1961 382 SO12
Tetranychidae.
N. V. Philips Gloeilampenfabrieken

9969-68

LONG-TERM EFFECTS OF INSECTICIDES ON WIREWORMS (AGRIOTES spp.) OF GRASSLAND IN NOVA SCOTIA.
J Sci Food Agr 15(7):II-26-3
Jul 1964 382 SO12
Aldrin, Chlordane, Dieldrin, Heptachlor, Lindane, Nova Scotia, Pastures.

9970-68

SOIL INSECTICIDES FOR CONTROL OF THE TUBER FLEA BEETLE, *EPITRIX TUBERIS*, (GENT.), IN THE INTERIOR OF BRITISH COLUMBIA.
J Sci Food Agr 12(3):I-127-2
Mar 1961 382 SO12
Aldrin, Chlordane, Dieldrin, Epitrix, Heptachlor.

9971-68

INFLUENCE OF SOME FUNGICIDES ON THE EFFECTIVENESS OF SPRAYS OF *BACILLUS THURINGIENSIS*, BERLMER.
J Sci Food Agr 15(7):II-21-5
Jul 1964 382 SO12
Apples, *Bacillus*, Biological control (insects), Cabbage, Captain, Dichlorone, Dcdine, Glyodin.

9972-68

SYSTEMIC INSECTICIDES TO CONTROL GREENBUGS ON SPRING-PLANTED BARLEY.
J Sci Food Agr 15(8):II-84-3
Aug 1964 382 SO12
Barley, Disyston, Phorate, Schizaphis.

9973-68

USE OF PYRETHRINS IN HORTICULTURE.
J Sci Food Agr 15(7):II-22-8
Jul 1964 382 SO12

Dianthus, Insect pests, Ornamental plants, Pyrethrum.

9974-68

EFFECT OF RASPBERRY CROWN BORER, *BEMBECIA MARGINATA*, ON YIELD OF LOGANBERRIES.
J Sci Food Agr 15(7):II-25-4
Jul 1964 382 SO12
Bembecia, British Columbia, Crop yields, Loganberries.

9975-68

COSTA RICAN CACAO INSECTS: THEIR ROLE IN CHERELLE WILT AND EFFECT ON YIELD.
J Sci Food Agr 12(3):I-129-1
Mar 1961 382 SO12
Cacao, Cherelle wilt (cacao), Ddt, Dieldrin.

9976-68

SYSTEMIC ACTION OF BENZENE HEXACHLORIDE SEED DRESSINGS.
J Sci Food Agr 15(8):II-83-7
Aug 1964 382 SO12
Benzene hexachloride, Cabbage, Plant translocation, Seed treatment, Wheat.

9977-68

NEW INSECTICIDES FOR LYGUS BUG CONTROL ON VEGETABLE SEED CROPS.
J Sci Food Agr 12(3):I-128-6
Mar 1961 382 SO12
Carbofenothon, Ddt, Endosulfan, Miridae, Trichlorfon, Vegetables.

9978-68

COCOA YIELD INCREASE BY CONTROL OF CAPSIOS (MIRIDAE).
J Sci Food Agr 15(7):II-26-1
Jul 1964 382 SO12
Cacao, Crop yields, Ghana, Lindane, Miridae.

9979-68

CONTROL OF ORIENTAL PEACH MOTH (*LASPEYRESIA MOLESTA*, BUSCK) IN ITALIAN SWITZERLAND FROM 1953 TO 1958).
M Baggiolin
J Sci Food Agr 12(3):I-128-1
Mar 1961 382 SO12
Diazinon, Grapholita, Peaches.

9980-68

INJURY TO GRASSES IN LAWNS BY ACROLOPHUS SP.
A C Banerjee
J Econ Entomol 60 (4) 01174
15 Aug 1967 421 J822
Acrolophus, Grasses, Plant injuries.

9981-68

DIELDRIN FOR PROTECTING DIRECT-SEEDED LONGLEAF PINES FROM THE WHITE-FRINGED BEETLE *GRAPHOGNATHUS PERIGRINUS* (BUCHANAN).
W H Bennett
J Econ Entomol 60 (4) 01186
15 Aug 1967 421 J822
Chemical control (insects), Dieldrin, Graphognathus perigrinus, Pinus palustris.

9982-68

EARLY-SEASON CONTROL OF THE ALFALFA WEEVIL.
J L Bishop R L Pienkowski
J Econ Entomol 60 (4) 01171-1173
15 Aug 1967 421 J822
Alfalfa, Chemical control (insects), Hypera postica, Insecticide application.

9983-68

WINTER DISTRIBUTION OF ADULT ALFALFA WEEVILS WITHIN ALFALFA FIELDS.
C C Blickenstaff
J Econ Entomol 60 (4) 01185
15 Aug 1967 421 J822
Alfalfa, Hypera postica, Insect populations.

9984-68

USE OF SOIL INSECTICIDES FOR CONTROLLING POTATO APHIDS AND VIRUS DISEASES.
P E Burt L Broabbent G D Heathcote
J Sci Food Agr 12(2) I-76-3
Feb 1961 382 SO12
Leaf roll (potatoes), *Macrosiphum*, Phorate, Potatoes.

9985-68

BANDED-WING WHITEFLY ABUNDANCE AND COTTON LEAF PUBESCENCE IN ARIZONA.
G D Butler H Muramoto

BIBLIOGRAPHY

20 10005-68

9985-68
J Econ Entomol 60 (4) 01176-1177
 15 Aug 1967 421 J822
 Arizona, Cotton, Pubescence, *Trialeurodes abutilonea*.

9986-68
 COTTON, A NEW HOST FOR THE SPIDER MITE EOTETRANYCHUS SMITHI.
 S D Caldwell
J Econ Entomol 60 (4) 01169
 15 Aug 1967 421 J822
 Cotton, *Eotetranychus smithi*, Host specificity, Insect pests.

9987-68
 CONTROL OF SUNFLOWER MOTH LARVAE AND THEIR DAMAGE TO SUNFLOWER SEEDS.
 E C Carlson
J Econ Entomol 60 (4) 01068-1071
 15 Aug 1967 421 J822
 Chemical control (insects), *Diazinon*, *Endosulfan*, GS 13005, *Homoeosoma electellum*, Plant injuries, Sunflowers.
 Abstract

9988-68
 THE PERFORMANCE OF DDT FOR CORN EARWORM CONTROL OVER AN ELEVEN YEAR PERIOD.
Fla Entomol 43(2):69-75, 6 REFS., 3 TABS.
 Jun 1960 420 F662
 Corn, Ddt, *Heliothis zea*.

9989-68
 FIELD EVALUATION OF EXPERIMENTAL AND RECOMMENDED INSECTICIDES FOR CONTROL OF THE ALFALFA WEEVIL IN NEW YORK.
 W R Cothran E J Armbrust D J Horn G G Gyrisko
J Econ Entomol 60 (4) 01151-1154
 15 Aug 1967 421 J822
 Alfalfa, Chemical control (insects), *Hypera postica*, Insecticides, New York.
 Abstract

9990-68
 SYSTEMIC INSECTICIDES FOR CONTROL OF BOLL WEEVIL AND THE COTTON FLEAHOPPER.
 C B Cowan J W Davis
J Econ Entomol 60 (4) 01038-1041
 15 Aug 1967 421 J822
Anthrenus grandis, Chemical control (insects), Cotton, *Psallus seriatus*, Systemic insecticides, Temik.
 Abstract

9991-68
 FIELD EXPERIMENTS AGAINST SEVERAL LATE-SEASON COTTON INSECTS IN 1959.
 J N Davis C R Farenca Jr
J Sci Food Agr 12(3):I-129-3
 Mar 1961 382 S012
Anthrenus grandis, *Azinphosmethyl*, Carbaryl, Cotton, Ddt, *Heliothis zea*, Methyl parathion, Toxaphene.

9992-68
 INSECTICIDE TREATMENTS FOR APHID CONTROL IN RELATION TO SPREAD OF EARLEY DWARF VIRUS.
 E A Dickason W B Raymer W H Foote
J Sci Food Agr 12(2) I-76-1
 Feb 1961 382 S012
 Aphididae, Barley, Disulfoton, Dwarf disease (oats), Phorate.

9993-68
 FIELD EXPERIMENTS ON THE INSECTICIDAL CONTROL OF INSECTS ATTACKING PEAS, SNAF AND LIMA BEANS.
 L P Ditman J R Young
J Sci Food Agr 12(3):I-128-7
 Mar 1961 382 S012
 Beans, Carbaryl, *Endosulfan*, *Heliothis zea*, Methyl trithion.

9994-68
 EFFECT OF TOPICAL APPLICATIONS OF GRANULATED SYSTEMIC INSECTICIDES AND OF CONVENTIONAL APPLICATIONS OF OTHER INSECTICIDES ON CONTROL OF INSECTS AND SPIDER MITES ON SUGAR BEET PLANTS.
 T R Fukuto G D Peterson Jr
J Sci Food Agr 12(3):I-126-10
 Mar 1961 382 S012
 Disulfoton, Phorate, Sugar beets, Tetranychidae.

9995-68
 PHOSPHATE INSECTICIDES AND DEFOILIANTS APPLIED SINGLY AND IN COMBINATION FOR CONTROL OF BOLL WEEVILS.
 M C Ganyard J R Brazzel
J Econ Entomol 60 (4) 01027-1029
 15 Aug 1967 421 J822

9996-68
Anthrenus grandis, Chemical control (insects), Cotton, Defoliants, Insecticides, Phosphates.
 Abstract

9997-68
 A FIELD OLFACTOMETER FOR STUDYING THE RESPONSE OF THE SOUTHERN PINE BEETLE TO ATTRACTANTS.
 R I Gara
J Econ Entomol 60 (4) 01180-1181
 15 Aug 1967 421 J822
 Attractants, *Dendroctonus frontalis*, Olfactometers, Trees.

9998-68
 STUDIES OF THE CHAFF SCALE ON CITRUS IN ISRAEL.
 U Gerson
J Econ Entomol 60 (4) 01145-1151 REF
 15 Aug 1967 421 J822
 Citrus, *Coccoidea*, Israel, *Parlatoria pergandii*.
 Abstract

9999-68
 NUTRIENT IMBALANCE AND LEAF PUBESCENCE IN CORN AS FACTORS INFLUENCING LEAF INJURY BY THE ADULT WESTERN CORN ROOTWORM.
 A F Hagen F N Anderson
J Econ Entomol 60 (4) 01071-1073
 15 Aug 1967 421 J822
 Biological control (pests), Corn, *Diabrotica virgifera*, Plant injuries, Plant nutritional deficiencies, Plant pest resistance, Pubescence.
 Abstract

10000-68
 ULTRA-LOW-VOLUME GROUND EQUIPMENT FOR APPLYING INSECTICIDES TO SOYBEANS.
 E A Harrell D B Leuck
J Econ Entomol 60 (4) 01164-1165
 15 Aug 1967 421 J822
 Insecticides, Soybeans, Spraying equipment, Ultra-low-volume spraying.

10001-68
 EFFECTS OF SEVIN ON PHYTOPHAGOUS MITES AND PREDATORS IN AN ONTARIO PEACH ORCHARD.
 D C Herne
J Sci Food Agr 12(3):I-127-9
 Mar 1961 382 S012
 Carbaryl, Mites, Peaches.

10002-68
 STUDIES ON THE AMINO ACIDS, NITROGEN, SUGAR AND MOISTURE CONTENT OF MAIZE AND SORGHUM VARIETIES AND THEIR RELATION TO CHILO ZONELLUS (SWIN.) RESISTANCE.
 M B Kalode N C Pant
Indian J Entomol 29(2) 0139-144 REF
 Jun 1967 420 IN23
 Amino acids, *Chiilo zonellus*, Corn, Crop varieties, Host specificity, Nitrogen, Plant pest resistance, Sorghum, Sugars, Water consumptive use.

10003-68
 DAMAGE TO COTTON BY THE TOBACCO BUDWORM.
 R T Kincaide M L Laster Jr Brazzel
J Econ Entomol 60 (4) 01163-1164
 15 Aug 1967 421 J822
 Cotton, *Heliothis virescens*, Plant injuries.

10004-68
 GENETIC VARIATION IN THE ABILITY OF A PLANTHOPPER VECTOR LAODELPHAX STRIATELLUS (FALLEN) TO ACQUIRE THE RICE STRIPE VIRUS.
 R Kisimoto
Virology 32(1) 0144-152 REF
 May 1967 448-8 V81
 Insect genetics, Insect vectors, *Laodelphax striatellus*, Stripe (rice), Virus diseases (plants), Wheat.
 Abstract

10005-68
 CONTROL OF BARLEY YELLOW DWARF IN WINTER OATS BY A SYSTEMIC INSECTICIDE.
 S Lund R S Filmer
J Sci Food Agr 15(8):II-84-4
 Aug 1964 382 S012
 Dimethoate, Oats, Seed treatment, Yellow dwarf (wheat).

10005-68
 CONTROL OF MIRIDAE spp. IN BIRDSFOOT TREFOIL SEED FIELDS.
 B B MacCollom
J Econ Entomol 60 (4) 01116-1118
 15 Aug 1967 421 J822

BIBLIOGRAPHY

20 10006-68

Birdsfoot trefoil, Chemical control (insects), Miridae, Toxaphene.
Abstract

10006-68
THE WINTER MOTH, CPEROPHTERA BRUMATA (LEPIDOPTERA GEO-METRIAE), A NEW PEST ATTACKING APPLE ORCHARDS IN NOVA SCOTIA, AND ITS COLDHARDINESS.
A W MacPhee

Can Entomol 99(8) 0829-834 REF

Aug 1967 421 C16

Apples, Cold, Cyzenis albicans, Operophtera brumata,

Parasitism.

Abstract

10007-68
PHORATE AND DEMETON FOR CONTROL OF PEA LEAF MINER ON SUGAR BEETS.
N F McCalley
J Sci Food Agr 15(8):II-84-7
Aug 1964 382 S012
Demeton, Leaf miners, Phorate, Sugar beets.

10008-68
STEM AND SCIL APPLICATIONS OF SYSTEMIC INSECTICIDES TO COTTON FCR CCNFBCL OF LYGUS HESPERUS.
R Patana R L Ridgway
J Econ Entomol 60 (4) 01158-1160
15 Aug 1967 421 J822
Chemical control (insects), Cotton, Lygus hesperus, Systemic insecticides.
Abstract

10009-68
(A) SOIL AS FACTOR IN VARIETAL YIELD DECLINE (OF SUGAR CANE).
(B) POSSIBLE ROLE OF INSECTS IN VARIETAL YIELD DECLINE OF SUGAR CANE.
C E Pemberton
J Sci Food Agr 12(3):I-122-1
Mar 1961 382 S012
Crop yields, Soils, Sugarcane.

10010-68
SOME ASPECTS OF THE WHEAT BULB FLY PROBLEM.
F Raw
Ann Appl Biol 59(2) 0155-173 REF
Apr 1967 442.8 AN72
Barley, Chemical control (insects), Insect biology, Plant pest resistance, Rye, Wheat, Wheat bulb fly.

10011-68
PRELIMINARY STUDY OF THE TIME AND FREQUENCY OF OAK BARK BEETLE ATTACKS ON OAK WILT TREES.
C O Rexode
Plant Dis Rep 51 (9) 0 755-757
Sep 1967 1.9 P69F
Ceratocystis fagacearum, Fungus diseases (plants), Insect behavior, Insect vectors, Plant disease transmission, Quercus, Scolytidae, Wilt (Quercus).

10012-68
PYRETHRUM IN THE TRANSVAAL.
J Serfontein
J Sci Food Agr 15(7):II-22-9, 14 REFS.
Jul 1964 382 S012
Pyrethrum.

10013-68
THE EUROPEAN CORN BORER, PYRAUSTA NUBILALIS, AND ITS PRINCIPAL HOST PLANT. IX. BIOLOGICAL ACTIVITY OF CHEMICAL ANALOGS OF CORN RESISTANCE FACTOR A 16-METHOXYBENZOAZOLI-NONE.
E E Smissman
Entomol Soc Amer Ann 54(1):53-61, 22 REFS.
Jan 1961 420 EN82
Methoxybenzoazolinone, 6-, Plant pest resistance, Pyrausta.

10014-68
CHANGES IN PEROXIDASE-ISOZYME PATTERNS INDUCED BY VIRUS INFECTION.
P Solymosy J Szirmai L Bezzner G L Parkas
Virology 32(1) 0117-121
May 1967 448.8 V81
Culture media, Kidney beans, Mosaic (alfalfa), Mosaic (tobacco), Necrosis, Nicotiana glutinosa, Peroxidases, Tobacco, Virus diseases (plants).
Abstract

10015-68
BIOLOGICAL CONTROL OF SUGAR CANE APHID PESTS IN THE WEST INDIES (HOMOPTERA, APHIDOIDEA, HYMENOPTERA, APHIDIIDAE). I.
P Stary

Riv Agr Subtrop Trop 61(1/3), 33-49. CONT.

Jan 1967 26 AG82

Aphididae, Biological control (insects), Braconidae, Pest control, Sugarcane.

10016-68
LEUCOPIS SIMEPLEX (DIPTERA CHAMAEMYIIDAE) AND OTHER SPECIES OCCURRING IN GALLS OF PHYLOXERA VITIFOLIAE (HOMOPTERA PHYLOXERIDAE) IN ONTARIO.
A B Stevenson

Can Entomol 99(8) 0815-820 REF

Aug 1967 421 C16

Chamaemyiidae, Leaf gall (grapes), Leucopis simplex, Phyloxera vitifoliae, Predaceous insects.
Abstract

10017-68
HOUSE SPARROWS NONPREDACEOUS ON TOBACCO HORNWORMS IN INDUCED FEEDING EXPERIMENTS.
P A Stewart
J Econ Entomol 60 (4) 01180
15 Aug 1967 421 J822
Manodus sexta, Natural control (insects), Sparrows, Tobacco.

10018-68
CONTROL OF STRIPE SMUT, USTILAGO STRIIFORMIS, (WEST.) NIESSI, ON KENTUCKY BLUEGRASS.
E M Stoddard
J Sci Food Agr 12(3):I-127-4
Mar 1961 382 S012
Naham, Poa, Stripe smut.

10019-68
THE WHITE COFFEE BORER, ANTHORES LEUCONOTUS, PASC., AND ITS CONTROL.
R G Tapley
J Sci Food Agr 12(2) I-77-4
Feb 1961 382 S012
Coffee, Dieldrin, White coffee borer.

10020-68
EFFECTS OF FUNGICIDE-INSECTICIDE SEED TREATMENTS ON EMERGENCE, GROWTH AND YIELD OF IRRIGATED COTTON IN THE SUDAN GENERA.
S A J Tarr
J Sci Food Agr 12(2) I-78-1
Feb 1961 382 S012
Cotton, Dieldrin, Methoxyethylmercuriacetate, Plant physiology, Seed treatment.

10021-68
NOTE ON THE INCIDENCE OF SITONA spp ROOT INJURY, AND ROOT ROT IN FORAGE LEGUMES IN THE MARITIME PROVINCES.
L S Thompson C B Willis
J Econ Entomol 60 (4) 01181-1182
15 Aug 1967 421 J822
Fusarium, Plant injuries, Root rot (alfalfa), Root rot (alsike clover), Root rot (birdsfoot trefoil), Root rot (red clover), Root rot (white clover), Roots, Sitona hispidula.

10022-68
SYSTEMIC INSECTICIDES FOR CONTROL OF SOYBEAN INSECTS IN SOUTH CAROLINA.
S G Turnipseed
J Econ Entomol 60 (4) 01054-1056
15 Aug 1967 421 J822
Chemical control (insects), Soybeans, Systemic insecticides.
Abstract

10023-68
BENZACHLOROCYCLOPENTADIENE, A PROMISING NEW INSECTICIDE FOR THE CONTROL OF THE ROOT FORM OF THE GRAPE PHYLOXERA.
J Van Geluwe D Lawatsch
J Sci Food Agr 12(3) HI-128-3
Mar 1961 382 S012
Grapes, Phylloxera.

10024-68
INSECTICIDE STUDIES ON THE MAIZE STALK BORDER, BUSSEOLA FUSCA (FULLER) IN E. AFRICA.
P T Walker
J Sci Food Agr 12(2) I-76-2
Feb 1961 382 S012
Busseola, Cornstalk borer, DDT, Endrin.

BIBLIOGRAPHY

20 10044-68

10025-68
 APPLICATION OF SYSTEMIC INSECTICIDES AS SEED TREATMENT TO PROTECT WHEAT PLANTS AGAINST GRASSHOPPERS AND WHEAT STEM SAWFLY.
 L E Wallace
 J Sci Food Agr 15(8):II-84-2
 Aug 1964 382 SO12
 Cephus, Disyston, Grasshoppers, Phorate, Seed treatment, Wheat.

10026-68
 THE NATURE AND CAUSES OF ANNUAL FLUCTUATIONS IN NUMBERS OF APHIS FABAE SCOP ON FIELD BEANS (VICIA FABA).
 M J Way
 Ann Appl Biol 59(2) 0175-188 REF
 Apr 1967 442.8 AN72
 Aphid, Beans, Euonymus europaeus, Insect populations. Abstract

10027-68
 RESISTANCE OF WHEAT SELECTIONS TO ARTIFICIAL INFESTATIONS OF GREENEUGS.
 E A Wood B C Curtis
 J Econ Entomol 60 (4) 01084-1088
 15 Aug 1967 421 J822
 Cultural control (insects), Plant pest resistance, Schizaphis graminum, Wheat. Abstract

10028-68
 EFFECT OF DDT ON CONTROL OF CORN EARWORMS IN SWEET CORN ENTRIES SELECTED FOR VARYING RESISTANCE.
 J R Yung K J Starks
 J Econ Entomol 60 (4) 01091-1094
 15 Aug 1967 421 J822
 Chemical control (pests), DDT, Heliothis zea, Plant pest resistance, Sweetcorn. Abstract

10029-68
 LABORATORY EVALUATION OF DIAZINON AS A WHEAT PROTECTANT.
 R W Zwick P Sikorowski M Weller
 J Sci Food Agr 15(8):II-84-1
 Aug 1964 382 SO12
 Diazinon, Oryzaephilus, Sitophilus, Tribolium, Wheat.

Nematodes

10030-68
 EFFICACY OF AN EXTRACT FROM SEAWEED AND CERTAIN LAND PLANT TISSUES FOR CONTROLLING SUGARBEET NEMATODE, HETERODERA SCHACHTII.
 Plant Dis Rep 48(5):396
 15 May 1967 1.9 P69P
 Heterodera schachtii, Nematocides, Sugar beets.

10031-68
 INSECTICIDE ROW TREATMENTS FOR THE CONTROL OF WIREWORMS IN POTATOES.
 J Sci Food Agr 12(3):I-127-1
 Mar 1961 382 SO12
 Aldrin, Elateridae, Heptachlor, Insecticide application, Potatoes.

10032-68
 EFFECT OF ORGANIC SOIL AMENDMENTS ON NEMATODE POPULATIONS.
 J Sci Food Agr 15(7):II-24-1
 Jul 1964 382 SO12
 Alkaline soils, Plant nematodes, Soil amendments.

10033-68
 CONTROL OF HETERODERA SCHACHTII.
 J Sci Food Agr 15(9):II-127-2
 Sep 1964 382 SO12
 Dibromo-3-chloropropene, 1,2-, Dichloropropene dichloropropene mixture, Heterodera, Sugar beets.

10034-68
 CONTROL OF MAIZE NEMATODES.
 J Sci Food Agr 15(8):II-84-5
 Aug 1964 382 SO12

Corn, Plant nematodes, Vorlex.

10035-68
 EFFECT OF SOIL APPLICATION AND SEALING METHOD ON THE EFFICACY OF ROW APPLICATION OF SOIL NEMATOCIDES FOR CONTROLLING ROOT-KNOT NEMATODES, WEEDS AND FUSARIUM WILT OF OKRA.
 J Sci Food Agr 15(9):II-125-11
 Sep 1964 382 SO12
 Fusarium, Nematocides, Okra, Pesticide application, Plant nematodes, Plastic tunnels, Soil sanitation, Weeds.

10036-68
 CONTROL OF PARASITIC EELWORMS IN BANANAS.
 J Sci Food Agr 12(3):I-128-4
 Mar 1961 382 SO12
 Bananas, Dibromo-3-chloropropene, 1,2-, Nematodes.

10037-68
 HATCH OF BEET EELWORM, HETERODERA SCHACHTII, SCHM., LARVAE IN RIVANOL, AND ITS USE FOR THE ESTIMINATION OF FIELD POPULATIONS.
 J Sci Food Agr 15(8):II-84-9
 Aug 1964 382 SO12
 Beets, Heterodera, Larvae, Population.

10038-68
 CHEMICAL CONTROL OF THE RASPBERRY ROOT BORER, EMBECIA MARGINATA, (HARR.) ON LOGANBERRY IN BRITISH COLUMBIA.
 H Andison
 J Sci Food Agr 12(3):I-127-8
 Mar 1961 382 SO12
 Diazinon, Mevinphos.

10039-68
 USE OF HERBICIDES TO BREAK THE LIFE CYCLE OF THE BENTGRASS NEMATODE, ANGUINA AGROSTIS, (STEINBUCK 1799), FILIPJEV 1936.
 H M Austenson W D Courtney
 J Sci Food Agr 12(2):I-79-7
 Feb 1961 382 SO12
 Agrostis, Amitrole, Dalapon, Maleic hydrazide, Nematodes.

10040-68
 THE HATCHING RESPONSE OF MELOIDOGYNE INCognita AS AFFECTED BY ROOT EXUDATES PRODUCED UNDER DIFFERENT SOIL MOISTURE STRESSES.
 J R Bloom
 Phytopathology 55(2):128
 Feb 1965 464.8 P56
 Meloidogyne, Plant nematodes, Roots, Soil moisture.

10041-68
 THE EFFECT AND CONTROL OF STING NEMATODES ON ORMOND BERMUDA GRASS.
 E O Burt
 Plant Dis Rep 48(8):625-628, TABS.
 15 Aug 1964 1.9 P69P
 Cynodon, Grasses.

10042-68
 EFFECT OF HOT WATER TREATMENT OF SEED TUBERS AND SOIL FUMIGANTS FOR CONTROL OF ROOT-KNOT ON YIELD OF CALADIUM.
 Plant Dis Rep 48(7):568-571, TABS.
 15 Jul 1964 1.9 P69P
 Fumigants, Tubers.

10043-68
 NATURE OF RESISTANCE IN SOYBEAN VARIETIES RESISTANT TO HETERODERA GLYCINES.
 A Y Chambers
 Phytopathology 55(5):498
 May 1965 464.8 P56
 Heterodera, Nematodes, Plant disease resistance, Roots, Soybeans.

10044-68
 NATURE OF SOYBEAN RESISTANCE TO HETERODERA GLYCINES.
 A Y Chambers J M Epps
 Plant Dis Rep 51 (9) 771-774 REF
 Sep 1967 1.9 P69P
 Heterodera glycines, Plant nematode resistance, Plant nematodes, Soybeans.
 Tennessee agricultural experiment station cooperating.
 We rooted tops and stems of soybean plants of susceptible varieties Lee and Hill, resistant variety Peking, resistant strain NC 55, and resistant d63-7320 and D63-7327 and inoculated the roots with larvae of the soybean cyst nematode, Heterodera glycines. the adventitious roots from tops and stems from all susceptible plants became heavily infected with white females none was observed on

BIBLIOGRAPHY

20 10045-68

adventitious roots of resistant plants. scions of resistant Peking and NC 55 soybeans were grafted to susceptible Lee rootstocks, and Lee scions were grafted to Peking and NC 55 rootstocks. roots of grafted plants with susceptible scions and resistant rootstocks were free of white females, while roots of grafted plants with resistant scions and susceptible rootstocks became heavily infected. our results suggest that the factor(s) for resistance or susceptibility to *H. glycines* is not synthesized in one part of the soybean plant and translocated to other parts, but is probably genetically inherent in tops, stems and roots of resistant plants.

10045-68

A POSSIBLE BIOLOGICAL CONTROL OF ROOT-KNOT NEMATODES.
M V Desai
Plant Dis Rep 48(3):167-168
15 Mar 1964 1.9 P69P

10046-68

REACTION OF SPECIES AND BREEDING LINES OF VETCH TO FIVE
ECOT-KNOT NEMATODE SPECIES.
E D Donnelly R I Shepherd
Phytopathology 55(5):500
May 1965 464.8 P56
Meloidogyne, Nematodes, Vetch.

10047-68

COMPARATIVE SUITABILITY OF HOSTS FOR REPRODUCTION OF
HETEROCHERA GLYCINES.
J M Epps
Phytopathology 55(5):497
May 1965 464.8 P56
Heterodera, Nematodes.

10048-68

SPECIES OF CUCUMIS RESISTANT TO THE ROOT-KNOT NEMATODE,
MELOIDOGYNE INCOCGNITA ACIRITA.
G Fassuliotis
Plant Dis Rep 51 (9) 0 720-723
Sep 1967 1.9 P69P
Cucumis, Meloidogyne incognita acrita,
Plant nematode resistance.
Fourteen species of Cucumis were examined for resistance to
Meloidogyne incognita acrita. resistance was found in C
ficiifolus, C. longipes, C. metuliferus, and C. hepta-
dactylus.

10049-68

FACTORS AFFECTING THE HATCHING ACTIVITY OF SUGARBEET-ROOT
DIPSUSATE.
J M Pife
Plant Dis Rep 48(3):229-233, TABS.
15 Mar 1964 1.9 P69P
Plant pests, Sugarbeets.

10050-68

PLANT PARASITIC NEMATODES ASSOCIATED WITH SABAL PALMETTO
ON VIRGIN LANE IN THE FLORIDA EVERGLADES.
Plant Dis Rep 48(7):533
15 Jul 1964 1.9 P69P
Nematodes, Florida, Sabal palmetto.

10051-68

EFFECT OF REPEATED APPLICATIONS OF NEMATOCIDES ON VEGETABLE
YIELDS AND NEMATODE POPULATIONS IN MUCK SOIL.
O Hedden
Plant Dis Rep 48(9):698-702, TABS.
15 Sep 1964 1.9 P69P
Meloidogyne, Paratylenchus, Pratylenchus, Vegetables.

10052-68

CONTROL OF STUBBY ROOT NEMATODE IN OREGON PLANTINGS BY SOIL
FUMIGATION.
E B Hopper G E Page
Plant Dis Rep 48(3):225-227
15 Mar 1964 1.9 P69P
Nematocides, Nematodes, Oregon.

10053-68

WATER-DISPERSED NEMATICIDES AS DIPS TO CONTROL THE POTATO
ROOT EELWORM, HETEROCHERA ROSTOCHIENSIS (WOLL.).
J Sci Food Agr 15(8):531-532, 6 REFS., 2 TABS.
Aug 1964 382 S012
Heterodera, Potatoes.

10054-68

XIPHINEMA AMERICANUM POPULATIONS AND ALFALFA YIELDS AS
AFFECTED BY SOIL TREATMENT, SPRAYING, AND CUTTING.
Phytopathology 55(6):615-619, BIBL., TABS., PL.

Jun 1965 464.8 P56
Alfalfa, Maneb, Nematodes, Plant cuttings, Soil chemistry,
Spraying, Xiphinema, 1,2-dibromo-3-chloropropane.

10055-68

TWO UNRECORDED HOSTS OF MELOIDOGYNE JAVANICA.
L C Knorr
Plant Dis Rep 48(6):476-477
15 Jun 1964 1.9 P69P
Host indexing (plants), Meloidogyne javanica, Plant nematodes.

10056-68

OCURRENCE AND CONTROL OF A NEMATODE OF THE GENUS
HYPSSPERINE ON ZOISIA AND BERMUDA GRASSES IN MARYLAND.
L R Krusberg
Plant Dis Rep 48(9):721-722
15 Sep 1964 1.9 P69P
Cynodon dactylon, Hypsoperine, Maryland, Nematodes,
Zoysiagrass.

10057-68

CONTROL OF THE ONION MAGGOT, HYLEMYA ANTIQUA, (MEIG),
(DIPTERA: ANTHOMYIIDAE), WITH INSECTICIDES IN ORGANIC
SOILS OF S.W. QUEBEC.
J Lafrance
J Sci Food Agr 12(3):I-128-9
Mar 1961 382 S012
Dieldrin, Disulfoton, Endrin, Heptachlor, Hylemya, Onions,
Toxaphene.

10058-68

FIELD EXPERIMENTS WITH SEVERAL INSECTICIDAL SPRAYS AGAINST
THE BOLL WEEVIL AND BOLLWORM.
E P Lloyd M E Merkl R E Furr
J Sci Food Agr 12(3):I-129-2
Mar 1961 382 S012
Anthonomus grandis, Azinphosmethyl, Carbaryl, Ddt,
Heliothis zea, Malathion, Methyl parathion.

10059-68

A ROOT-LESION NEMATODE FOUND INFESTING EUCALYPTUS TREES IN
BRAZIL.
L G E Lordello
Plant Dis Rep 51 (9) 0 791
Sep 1967 1.9 P69P
Eucalyptus, Plant nematodes, Pratylenchus brachyurus.

10060-68

THE FEEDING OF TRICHODORUS CHRISTIEI ON INDIVIDUALLY
ISOLATED CORN ROOT CELLS.
W F Mai
Phytopathology 55(2):128
Feb 1965 464.8 P56
Corn, Trichodorus.

10061-68

EFFECTS OF RENIFORM NEMATODE POPULATIONS ON SWEETPOTATO
YIELDS.
W J Martin
Phytopathology 55(5):497
May 1965 464.8 P56
Nematodes, Rotylenchulus, Sweetpotatoes.

10062-68

HOST RANGE OF NORTHERN ROOT-KNOT NEMATODE ON IRRIGATED CROP
PLANTS AND WEEDS IN WASHINGTON.
F D McElroy
Plant Dis Rep 48(3):190-193
15 Mar 1964 1.9 P69P
Host indexing (plants), Washington.

10063-68

EFFECTS OF SOIL FUMIGANTS ON OCCURRENCE OF NEMATODES IN
FIELD BINS.
E B Minton E J Cairns A L Smith
J Sci Food Agr 12(2) I-78-6
Feb 1961 382 S012
Nematodes.

10064-68

CONTROL OF COTTON ROOT-KNOT NEMATODES BY SEED TREATMENT WITH
1,2-DIBROMO-3-CHLOROPROPANE.
J H O Bannon H W Reynolds
J Sci Food Agr 12(2) I-78-3
Feb 1961 382 S012
Cotton, Root knot (cotton), Seed treatment,
1,2-dibromo-3-chloropropane.

BIBLIOGRAPHY

20 10087-68

10065-68
INFLUENCE OF PRECEDING VEGETABLE CROP ON NEMATODE POPULATIONS THE FOLLOWING YEAR.
Plant Dis Rep 48(6):500-502
15 Jun 1964 1.9 P69P
Crop rotation, Nematodes.

10066-68
GREENHOUSE STUDIES ON THE CONTROL OF ROOT-KNOT NEMATODES ON HYDROCOTYLE SIETHORPIOIDES.
F A Pokorny
Phytopathology 55(5):501
May 1965 464.8 P56
Greenhouses, Hydrocotyle, Nematodes.

10067-68
ONION YIELD INCREASES FOLLOWING APPLICATION OF NEMATOCIDES TO CONTROL STUBBY-ROOT, ROOT-KNOT AND LESION NEMATODES.
J D Radewald N C Welch H E McKinley
Plant Dis Rep 48(5):409-413, TABS.
15 May 1964 1.9 P69P
Nematocides, Onions.

10068-68
BIOCHEMICAL CHANGES IN ALFALFA INJURED BY LESION NEMATODES.
R A Robde
Phytopathology 55(2):127-128
Feb 1965 464.8 P56
Alfalfa, Plant nematodes, Pratylenchus.

10069-68
ADDITIONAL DATA ON RESULTS OF NEMATOCIDAL FUMIGATION IN PINE PLTS IN NORTH CAROLINA.
J N Sasser
Plant Dis Rep 48(7):534-536
15 Jul 1964 1.9 P69P
Nematocides, North Carolina, Pinus.

10070-68
NEMATOCIDAL SUBSTANCES SELECTIVE FOR PLANT-PARASITIC NEMATODES IN EXTRACTS OF DECOMPOSING RYE.
R M Sayre H J Thorpe
Phytopathology 55(6):702-704, BIBL. 703-704, PL.
Jun 1965 464.8 P56
Nematodes, Rye.

10071-68
THE USE OF CERTAIN SOIL FUMIGANTS AND NEMATOCIDES AS PRE-AND POST-PLANT TREATMENTS ON PEACH AND PLUM TREES.
Phytopathology 55(5):499
May 1965 464.8 P56
Peaches, Plums.

10072-68
CONTROL OF CORN NEMATODES WITH VORLEX AND D-D.
Plant Dis Rep 48(2):122-123
15 Feb 1964 1.9 P69P
D-D, Dichloropropene dichloropropene mixture, Nematodes, Vorlex.

10073-68
HISTOLOGICAL RESPONSES OF RESISTANT AND SUSCEPTIBLE SOYBEAN VARIETIES, AND BACKCROSS PROGENY TO ENTRY AND DEVELOPMENT OF HETERODERA GLYCINES.
Phytopathology 55(4):375-381
Apr 1965 464.8 P56
Heterodera, Heterodera glycines, Plant histology.

10074-68
SURVIVAL OF MELOIDOGYNE JAVANICA ON TOBACCO IN SOUTH CAROLINA.
Phytopathology 55(5):498-499
May 1965 464.8 P56
Nematodes, Plant galls, South Carolina, Tobacco.

10075-68
ASSOCIATION OF NEMATODES WITH CORN IN WISCONSIN.
Plant Dis Rep 48(6):458-459
15 Jun 1964 1.9 P69P
Corn, Nematodes, Wisconsin.

10076-68
EFFECTS OF CHOPPING ON POPULATION LEVELS OF XIPHINEMA AMERICANUM AND CRICONEMOIDES XENOPLAX.
Plant Dis Rep 48(3):218-221, BIBL. 220-221.
15 Mar 1964 1.9 P69P
Criconemoides, Host indexing (plants), Nematodes, Population statistics, Xiphinema.

10077-68
SOME TEMPERATURE REACTIONS OF XIPHINEMA AMERICANUM AND IMPLICATIONS TO VIRUS TRANSMISSION.
Plant Dis Rep 48(3):222-224
15 Mar 1964 1.9 P69P
Nematode vectors, Nematodes, Virus diseases (plants), Xiphinema.

10078-68
DISTRIBUTION OF PLANT-PARASITIC NEMATODES ON CITRUS AND OTHER CROPS IN PUERTO RICO.
Plant Dis Rep 48(5):375-378
15 May 1964 1.9 P69P
Nematodes, Plant injuries, Population statistics, Puerto Rico.

10079-68
CONTROL OF THE CITRUS NEMATODE, TYLENCHULUS SEMIPENETRANS IN MICROSCOPIC SUBLOT EXPERIMENTS.
Plant Dis Rep 48(6):471-475, TABS.
15 Jun 1964 1.9 P69P
Nematocides, Nematodes, Tylenchulus semipenetrans.

10080-68
THE EFFECTS OF ZINOPHOS ON NEMATODE POPULATIONS AND CRANBERRY YIELDS.
Plant Dis Rep 48(3):172-175
15 Mar 1964 1.9 P69P
Cranberries, Nematodes, Zinophos, 1,2-dibromo-3-chloropropane.

10081-68
STUDIES OF TWO NEMATODE SPECIES ASSOCIATED WITH ROOTS OF THE CULTIVATED HIGHBUSH BLUEBERRY.
Plant Dis Rep 48(3):170-172, BIBL. 171-172
15 Mar 1964 1.9 P69P
Blueberries.

10082-68
ADDITIONAL HOSTS OF THE SOYBEAN CYST NEMATODE, HETERODERA GLYCINES, INCLUDING HOSTS IN TWO ADDITIONAL PLANT FAMILIES.
Plant Dis Rep 48(5):388-389
15 May 1964 1.9 P69P
Heterodera glycines, Host indexing (plants).

10083-68
LEPTOSPHAERULINA BRIOSIANA ON ALFALFA: INFECTION AND DISEASE DEVELOPMENT, HOST-PARASITE RELATIONSHIPS, ASCOSPORE GERMINATION AND DISSEMINATION.
R D Wilcoxson
Phytopathology 55(5):546-553, BIBL., TABS., PL.
May 1965 464.8 P56
Alfalfa, Seed germination, Spores.

10084-68
PLANT-PARASITIC NEMATODES IN ILLINOIS STRAWBERRY PLANTINGS.
C C Zych
Plant Dis Rep 48(6):451-452
15 Jun 1964 1.9 P69P
Illinois, Nematodes, Strawberries.

10085-68
CHEMICAL CONTROL OF VEGETATION ON ROADS OVERSEAS.
J Sci Food Agr 15(7):II-26-7
Jul 1964 382 S012
Brush control, Chemical control (weeds), Roads, Tree control.

10086-68
15TH INTERNATIONAL SYMPOSIUM ON CROP PROTECTION (SECTION F: WEED CONTROL), GHENT, 7TH MAY, 1963.
Weed Res 3(4):339-342
Dec 1963 79.8 W412
Symposia, Weed control.

10087-68
USE OF MONURON AND DIURON FOR CONTROLLING WEEDS IN SUGAR CANE.
J Sci Food Agr 12(2):I-79-3
Feb 1961 382 S012
Diuron, Monuron, Sugarcane.

Weeds

BIBLIOGRAPHY

20 10088-68

10088-68
 16TH INTERNATIONAL SYMPOSIUM ON CROP PROTECTION,
 SPECIAL SECTION OF WEED RESEARCH, GHENT, BELGIUM, 5TH
 MAY, 1964.
 Weed Res 4(4):368-370
 Dec 1964 79.8 W412
 Agricultural research, Symposia, Weed control.

10089-68
 HERBICIDAL ACTION OF 1,1 -ETHYLENE-2,2 -DIPYRIDYLUM
 DIROMIDE.
 J Sci Food Agr 12(2):I-79-6
 Feb 1961 382 S012
 Broadbeans, Diquat.

10090-68
 HERBICIDE MIXTURES FOR WEED CONTROL IN PEANUTS (ARCHIS
 HYPOGAEA L.), 1961-63.
 Weed Res 4(4):338-350, 8 REFS.
 Dec 1964 79.8 W412
 Digitaria sanguinalis, Herbicides, Peanuts, Richardia scabra.

10091-68
 INFLUENCE OF THE (BUTYL) ESTER OF 2,4-D APPLIED AT VARIOUS
 GROWTH STAGES FOR CONTROL OF RUSSIAN THISTLE (SALSOLA
 PESTIFERA, NELS.) IN FLAX.
 J Sci Food Agr 12(2):I-79-2
 Feb 1961 382 S012
 Flax, Salsola, 2,4-d.

10092-68
 REPORT ON THE FIFTE GERMAN CONFERENCE ON WEED BIOLOGY AND
 WEED CONTROL.
 W van der Zweep
 Weed Res 3(4):335-338
 Dec 1963 79.8 W412
 Biology, Conferences, Weed control.

10093-68
 OBSERVATIONS ON THE EFFECT OF HERBICIDES ON YOUNG COCONUTS.
 Weed Res 4(1):24-30, 2 REFS., 1 TAB.
 Mar 1964 79.8 W412
 Coconuts, Diquat, Monuron, 2,4-d.

10094-68
 ORGANIZATION OF WEED RESEARCH IN AUSTRIA.
 Weed Res 4(4):365
 Dec 1964 79.8 W412
 Agricultural research, Austria, Weed control.

10095-68
 EFFECT OF DOWPON ON BERMUDA GRASS PEACH ORCHARDS.
 C E Gamble Jr W H Rhodes
 J Sci Food Agr 12(1) I-22-8
 Jan 1961 382 S012
 Cynodon dactylon, Digitaria, Dowpon, Peaches.

10096-68
 THE FATE OF N -(4-CHLOROPHOXY)-PHENYL-NN-DIMETHYLUREA
 (C1983) IN SOILS AND PLANTS. ADSORPTION AND LEACHING IN
 DIFFERENT SOILS.
 C Haselbach H Aebi
 Weed Res 3(2):140-153, 21 REFS., 1 TAB.
 Jun 1963 79.8 W412
 Adsorption, Soil leaching, Soils.

10097-68
 THE FATE OF N -(4-CHLOROPHOXY)-PHENYL-NN-DIMETHYLUREA
 (C-1983) IN SOILS AND PLANTS. BREAKDOWN IN SOILS AND
 PLANTS.
 C Haselbach H Aebi L Ebner
 Weed Res 3(4):277-297, 25 REFS., 4 TABS.
 Dec 1963 79.8 W412
 Plants, Soils.

10098-68
 SELECTIVE CONTROL OF CHENOPODIUM ALBUM IN KALE WITH
 METHYLMERCAPTO TRIAZINES.
 H M Holmes A K Pfeiffer
 Weed Res 3(2):109-127, 3 REFS., 10 TABS.
 Jun 1963 79.8 W412
 Kale.

10099-68
 INTERRELATIONSHIPS BETWEEN METHODS OF SPRAY APPLICATION.
 RETENTION AND WEATHER CONDITIONS ON THE HERBICIDAL
 EFFICIENCY OF 2,4-DINITRO-O-CRESOL.
 P R Ken
 J Sci Food Agr 12(1) I-22-7
 Jan 1961 382 S012

Dinitrocresol, Spraying, Weather.

10100-68
 ORGANIZATION OF WEED RESEARCH IN PORTUGAL.
 Weed Res 4(4):367
 Dec 1964 79.8 W412
 Agricultural research, Weed control.

10101-68
 ORGANIZATION OF WEED RESEARCH IN THE GERMAN FEDERAL RE-
 PUBLIC.
 Weed Res 4(4):363-364
 Dec 1964 79.8 W412
 Agricultural research, Germany, Weed control.

10102-68
 ABSORPTION AND TRANSLOCATION OF RADIOACTIVE HERBICIDES IN
 SUBMERSED AND EMERSED AQUATIC WEEDS.
 J M Lawrence
 Weed Res 3(4):304-311, 14 REFS., 3 TABS.
 Dec 1963 79.8 W412
 Absorption, Aquatic weeds, Fenac, Simazine, 2,4-d.

10103-68
 HERBICIDES FOR CONTROL OF WEEDS IN RICE IN TRINIDAD.
 C E J Morley P H Rosher
 J Sci Food Agr 12(2):I-79-4
 Feb 1961 382 S012
 MCPA, Rice.

10104-68
 THE USE OF PARAQUAT FOR THE CONTROL OF AUTUMN CROCUS (COL-
 CHICUM AUTUMNALE).
 Weed Res 4(4):362
 Dec 1964 79.8 W412
 Paraquat, Weed control.

10105-68
 EMERGENCE AND LONGEVITY IN CULTIVATED SOIL OF SEEDS OF SOME
 ANNUAL WEEDS.
 Weed Res 4(4):296-307, 11 REFS.
 Dec 1964 79.8 W412
 Longevity, Seeds, Tillage, Weeds.

10106-68
 THE EFFECTS OF SUB-LETHAL DOSES OF MCPA ON THE MORPHOLOGY
 AND YIELD OF VEGETABLE CROPS. IV. FRENCH AND BROAD BEANS.
 Weed Res 3(4):312-321, 31 REFS., 1 TAB.
 Dec 1963 79.8 W412
 Beans, Crop varieties, Crop yields, MCPA, Plant morphology.

10107-68
 THE EFFECTS OF SUB-LETHAL DOSES OF MCPA ON THE MORPHOLOGY
 AND YIELD OF VEGETABLE CROPS. V. BEET, SPINACH, TURNIP AND
 ONION.
 Weed Res 4(1):12-23, 25 REFS., 2 TABS.
 Mar 1964 79.8 W412
 Beets, Crop yields, MCPA, Onions, Plant morphology, Spinach, Turnips.

10108-68
 FACTORS AFFECTING THE SELECTIVITY OF 2,3-DICHLORALLYLIDISO-
 PROPYLTHIOCARBAMATE (DI-ALLATE) AGAINST AVENA SPP. IN WHEAT
 AND BARLEY.
 Weed Res 3(4):259-276, 12 REFS., 1 TAB.
 Dec 1963 79.8 W412
 Avena, Barley, Di-allate, Weed control, Wheat.

10109-68
 FIELD EXPERIMENTS WITH CHEMICALS FOR TOTAL CONTROL OF
 VEGETATION.
 E J Petersen
 J Sci Food Agr 12(2):I-79-5
 Feb 1961 382 S012
 Monuron, Weed control.

10110-68
 PENETRATION OF AND PERSISTENCE IN SOIL OF THE HERBICIDE
 ATRAZINE.
 F E B Roadhouse
 J Sci Food Agr 15(7):II-26-8
 Jul 1964 382 S012
 Atrazine, Herbicide residues, Loam.

10111-68
 ORGANIZATION OF WEED RESEARCH IN GREECE.
 Weed Res 4(4):366
 Dec 1964 79.8 W412
 Agricultural research, Greece.

BIBLIOGRAPHY

30 10125-68

10112-68
 CONTROL OF WEEDS IN MARROWSTEM KALE BY EPTC AND SOME OTHER HERBICIDES.
Weed Res 3(2):128-139, 12 REFS., 10 TABS.
 Jun 1963 79.8 W412
 Crop yields, EPTC, Kale, Weed control.

10113-68
 GRASS CONTROL IN KENYA COFFEE.
 J A N Wallis
J Sci Food Agr 12(1) I-22-9
 Jan 1961 382 SC12
 Coffee, Dichloropropionic acid, 2,2-, Dowpon, Grasses.

Other Pests

10114-68
 MORPHOLOGICAL AND MICROSCOPICAL CHANGES IN TOBACCO, BEAN, AND PETUNIA LEAVES EXPOSED TO IRRADIATED AUTOMOBILE EXHAUST.
 J A Dunning C S Brandt
Phytopathology 55(1):27-30, BIBL., PL.
 Jan 1965 464.8 E56
 Carbon monoxide, Irradiation, Kidney beans, Petunia, Tobacco.

30 LIVESTOCK PROTECTION

Diseases

10115-68
 HEMOLYTIC ESCHERICHIA COLI ENTERITIS OF WEANLING PIGS.
Can J Comp Med Vet Sci 27(8):192
 Aug 1963 41.8 C162
 Baby pigs, Enteritis, Neomycin, Nitrofurazone, Sulfonamides.

10116-68
 ORGANIC PHOSPHORUS. GUSATHION AND PHOSDRIN. I. TOXICITY.
 II. ENZYMIC STUDY.
J Sci Food Agr 12(1):I-56-3
 Jan 1961 382 SC12
 Azinphosmethyl, Mevinphos, Mice, Poisoning.

10117-68
 THINGS OLD AND NEW ABOUT HARD PAD.
Can J Comp Med Vet Sci 27(11):273
 Nov 1963 41.8 C162
 Diet, Dogs, Hard pad disease.

10118-68
 TEMPERATURE RESPONSE FOLLOWING HOG CHOLERA VACCINATION AS INFLUENCED BY SWINE ISOAGGLUTININS.
Cornell Vet 50(4):412-416, 18 REFS., 1 TAB.
 Oct 1960 41.8 C81
 Animal temperature, Hog cholera vaccines, Isoagglutinins, Swine.

10119-68
 THE SURGICAL TREATMENT OF CANINE OTITIS EXTERNA.
Can J Comp Med Vet Sci 27(8):202
 Aug 1963 41.8 C162
 Dogs, Otitis, Surgery.

10120-68
 TRACER DYES IN INTRAMAMMARY PREPARATIONS AS A METHOD OF RAPID INDIRECT DETECTION OF ANTIBIOTIC RESIDUES IN MILK--A REVIEW.
Can J Comp Med Vet Sci 27(6):150
 Jun 1963 41.8 C162
 Antibiotics, Milk.

10121-68
 BRISKET DISEASE. III. SPONTANEOUS REMISSION OF PULMONARY HYPERTENSION AND RECOVERY FROM HEART FAILURE.
 <et. al.
Can J Comp Med Vet Sci 27(12):300
 Dec 1963 41.8 C162
 Brisket disease, Calves.

10122-68
 STUDIES ON BOVINE STAPHYLOCOCCAL MASTITIS. III. INACTIVATION AND ANTIGENICITY OF TOXINS.
Can J Comp Med Vet Sci 27(2):41
 Feb 1963 41.8 C162
 Bacterins, Formaldehyde, Hydracrylic acid beta-lactone, Mastitis, Rabbits.

10123-68
 THE RELATIONSHIP BETWEEN MILKING MACHINE PRACTICE AND BOVINE MASTITIS.
Can J Comp Med Vet Sci 27(7):176
 Jul 1963 41.8 C162
 Hygiene, Mastitis, Milking machines.

10124-68
 SCRAPIE: A TRANSMISSIBLE DISEASE IN SHEEP.
Can J Comp Med Vet Sci 27(4):100-101
 Apr 1963 41.8 C162
 Scrapie, Sheep.

10125-68
 THE DANGER OF USING MASSIVE DOSES OF VITAMIN D3 IN THE PREVENTION OF MILK FEVER.
Can J Comp Med Vet Sci 27(12):294
 Dec 1963 41.8 C162
 Dairy cattle, Milk fever, Vitamin d3.

BIBLIOGRAPHY

30 10126-68

10126-68
SOME CLINICAL AND EXPERIMENTAL OBSERVATIONS ON NATURALLY-
OCCURRING PANTOTHENIC-ACID DEFICIENCY IN PIGS.
Can J Comp Med Vet Sci 27(7):164
Jul 1963 41.8 C162
Deficiency diseases, Pantothenic acid, Swine.

10127-68
CANCER THERAPY: A POSSIBLE NEW APPROACH.
<et. al.
Can J Comp Med Vet Sci 27(10):240
Oct 1963 41.8 C162
Cancer, Mice.

10128-68
BRACHIAL PLEXUS ANALGESIA IN THE DOG.
Can J Comp Med Vet Sci 27(6):139
Jun 1963 41.8 C162
Analgesics, Dogs.

10129-68
ATHEROSCLEROSIS IN RHESUS MONEKEYS. IV. REPAIR OF ARTERIAL
INJURY.
<et. al.
Can J Comp Med Vet Sci 27(12):289
Dec 1963 41.8 C162
Atherosclerosis, Mcnkeys.

10130-68
INTRANUCLEAR INCLUSION BODIES ASSOCIATED WITH HCG CHOLERA.
<et. al.
Can J Comp Med Vet Sci 27(6):146
Jun 1963 41.8 C162
Hog cholera, Inclusion bodies, Swine.

10131-68
ewe FERTILITY AND PRENATAL LAMB MORTALITY.
Can J Comp Med Vet Sci 27(8):188
Aug 1963 41.8 C162
Fertility, Lambs, Mortality, Sheep.

10132-68
THE COMPARATIVE ACTIVITY OF SOME ENZYMES IN SHEEP, CATTLE
AND RATS--NORMAL SERUM AND TISSUE LEVELS AND CHANGES DURING
EXPERIMENTAL LIVER NECROSIS.
Can J Comp Med Vet Sci 27(6):139
Jun 1963 41.8 C162
Cattle, Enzymes, Necrosis, Rats, Sheep.

10133-68
PERSISTENCE OF ANTIBACTERIAL AGENTS IN MILK AFTER
INTRAMAMMARY TREATMENT OF CLINICAL MASTITIS.
Can J Comp Med Vet Sci 27(11):266
Nov 1963 41.8 C162
Antibiotics, Dairy cows, Mastitis, Milk.

10134-68
HEREDITARY RETINAL ATROPHY IN THE POODLE.
Can J Comp Med Vet Sci 27(7):161
Jul 1963 41.8 C162
Blindness, Hereditary diseases, Poodle dogs, Retina.

10135-68
RUMEN MOTILITY IN DAIRY CATTLE.
G de Alba
Cornell Vet 50(1):66-72, 6 REFS., 2 TABS.
Jan 1960 41.8 C81
Dairy cattle, Digestion, Rumen.

10136-68
MADURAMYCOSIS OF BOVINE NASAL MUCOSA (NASAL GRANULOMA OF
CATTLE).
Cornell Vet 50(4):468-484, 12 REFS.
Oct 1960 41.8 C81
Cattle, Nasal granuloma.

10137-68
TOXOPLASMOSIS. III. STUDIES USING THE COMPLEMENT-FIXATION
TEST AND FLUORESCENCE-INHIBITION TEST WITH SERA OF
EXPERIMENTALLY EXPOSED BIRDS.
M Appel G M Ruckerbauer G L Bannister P Boulanger
Can J Comp Med Vet Sci 27(8):189-192, 11 REFS., 4 TABS.
Aug 1963 41.8 C162
Chickens, Complement fixation, Fluorescent antibody technic,
Toxoplasmosis, Turkeys.

10138-68
A CYTOPATHOGENIC STRAIN OF VIRUS DIARRHEA VIRUS.
J A Baker K McEntee
Cornell Vet 50(1):73-79, 8 REFS., 2 TABS.

Jan 1960 41.8 C81
Cattle, Tissue culture.

10139-68
CHEMICAL RESTRAINT OF EXOTIC ANIMALS IN A DISEASE REGULATORY
PROGRAM.
Can J Comp Med Vet Sci 27(1):13-16, 12 REFS., 3 TABS.
Jan 1963 41.8 C162
Ixodidae, Succinylcholine chloride, Wildlife.

10140-68
OBSERVATIONS ON THE PARATHYROID GLANDS OF GUINEA PIGS
AFFECTED WITH METASTATIC CALCIFICATION.
D E Baldwin
Can J Comp Med Vet Sci
Jun 1963 41.8 C162
Calcification (physiological), Deficiency diseases,
Guinea pigs, Magnesium, Parathyroid glands.

10141-68
TOXOPLASMOSIS. II. STUDIES OF ANIMAL SERA USING COMPLEMENT
-FIXATION TESTS.
G L Bannister G M Ruckerbauer P Boulanger
Can J Comp Med Vet Sci 27(7):169-175, 14 REFS., 2 TABS.
Jul 1963 41.8 C162
Calves, Goats, Guinea pigs, Sheep, Toxoplasmosis.

10142-68
HEMATOLOGIC STUDIES OF RINDERPEST-INFECTED SWINE.
T L Barber
Can J Comp Med Vet Sci 27(3):56-60, 10 REFS., 1 TAB.
Mar 1963 41.8 C162
Hematology, Rinderpest, Swine.

10143-68
THE EFFECT OF CHLORTETRACYCLINE MEDICATION ON THE COLIFORM
MICROFLORA OF NEWLY HATCHED CHICKS.
A C Blackwood D G Dale
Can J Comp Med Vet Sci
Mar 1963 41.8 C162
Bacteria, Chicks, Chlortetracycline.

10144-68
INTESTINAL MICROFLORA ASSOCIATED WITH ENTERITIS OF EARLY-
WEANED PIGS.
A C Blackwood D G Dale
Can J Comp Med Vet Sci 27(12):290-294, 15 REFS., 1 TAB.
Dec 1963 41.8 C162
Baby pigs, Enteritis.

10145-68
COMPARISON OF THE COMPLEMENT-FIXATION TEST AND THE
MICROSCOPIC-AGGLUTINATION TEST (AGGLUTINATION-LYSIS) FOR THE
DETECTION OF LEPTOSPIRAL ANTIBODIES.
P Boulanger
Can J Comp Med Vet Sci 27(5):113-120, 9 REFS., 7 TABS.
May 1963 41.8 C162
Agglutination test, Calves, Complement fixation, Rabbits.

10146-68
IMMUNOLOGICAL ACTIVITY OF LEPTOSPIRA POMONA BACTERINS.
P Boulanger
Can J Comp Med Vet Sci 27(4):85-90, 16 REFS., 4 TABS.
Apr 1963 41.8 C162
Immunology, Leptospira pomona bacterins.

10147-68
FLUOROMETRIC DETERMINATION OF SELENIUM IN PLANTS AND ANIMALS
WITH 3,3 -DIAMINOBENZIDINE.
E Brethauer H J Seim C Blincoe
Anal Chem 35(11):1687-1693, 17 REFS.
Oct 1963 381 J825A
Fluorometry, Livestock, Selenium.

10148-68
ISOLATION OF WESTERN EQUINE ENCEPHALOMYELITIS (WEE) VIRUS
FROM MOSQUITOES IN SASKATCHEWAN, 1962.
A N Burton J McLintock R Connell
Can J Comp Med Vet Sci 27(12):283-289, 17 REFS., 1 TAB.
Dec 1963 41.8 C162
Culicidae, Horses, Western equine encephalomyelitis virus.

10149-68
HOG CHOLERA PROTECTION TESTS WITH SWINE SERUM FRACTIONS.
II. HOG CHOLERA IMMUNE AND NONIMMUNE SERUMS.
D A Buthala
Cornell Vet 50(2):177-182, 3 REFS., 1 TAB.
Apr 1960 41.8 C81
Hog cholera vaccines, Hog cholera virus, Swine.

BIBLIOGRAPHY

30 10173-68

10150-68
 A COMPARISON OF EXPERIMENTAL ANAPHYLACTIC SHOCK IN GUINEA PIGS WITH NATURALLY OCCURRING ODEMA DISEASE AND BAEMORRHAGIC GASTROENTERITIS IN PIGS.
 A Buxton
 Can J Comp Med Vet Sci 27(7):175-176
 Jul 1963 41.8 C162
 Anaphylaxis, Edema disease, Gastroenteritis, Guinea pigs, Swine.

10151-68
 A LABORATORY CONFIRMED CASE OF VIRAL ENCEPHALITIS (EQUINE TYPE) IN A HORSE IN WHICH THE ANIMAL COMPLETELY RECOVERED FROM THE DISEASE.
 R J Byrne
 Cornell Vet 50(4):494-497, 3 REFS., 1 TAB.
 Oct 1960 41.8 C81
 Equine encephalomyelitis, Horses.

10152-68
 TOXICITY OF ALPHOLATE TO CATTLE.
 Can J Comp Med Vet Sci 27(10):233-236, 8 REFS., 1 TAB.
 Oct 1963 41.8 C162
 Alpholate, Cattle, Cestridae, Poisoning.

10153-68
 EFFECT OF DILUENT ON SEASONAL DIFFERENCES IN THE HAEMOLYTIC TITRE OF GUINEA-PIG COMPLEMENT.
 Can J Comp Med Vet Sci 27(3):73, 2 REFS., 1 TAB.
 Mar 1963 41.8 C162
 Complement fixation, Guinea pigs, Hemolysis.

10154-68
 THE EFFECT OF UNHEATED BOVINE SERUM ON THE COMPLEMENT-FIXING ACTIVITY OF HEAT-INACTIVATED BOVINE ANTISERUM WITH HOMOLOGOUS ANTIGEN. V. RESIDUAL COMPLEMENT ACTIVITY.
 Can J Comp Med Vet Sci 27(12):295-300, 12 REFS., 3 TABS.
 Dec 1963 41.8 C162
 Antigens, Complement fixation, Serum.

10155-68
 NEUROPATHOLOGY OF PORCINE TOXOPLASMOSIS.
 C B Cole
 Cornell Vet 50(4):362-383, 18 REFS., 3 TABS.
 Oct 1960 41.8 C81
 Swine, Toxoplasmosis.

10156-68
 AN OUTBREAK OF GRASS TETANY IN LACTATING BEEF CATTLE.
 C E Cornelius
 Cornell Vet 50(1):26-33, 14 REFS., 2 TABS.
 Jan 1960 41.8 C81
 Cattle, Grass tetany, Magnesium.

10157-68
 SUPRAFEMORAL CYSTOTOMY IN A GELDING.
 Cornell Vet 50(4):510-514, 3 REFS.
 Oct 1960 41.8 C81
 Horses, Surgery, Urinary calculi.

10158-68
 COMPARISON OF IMMUNE RESPONSE TO DISTEMPER PRODUCED BY INTRAVENOUS INOCULATION AND BY AEROSOL EXPOSURE.
 Cornell Vet 50(4):514-518, 2 REFS., 1 TAB.
 Oct 1960 41.8 C81
 Canine distemper, Dogs, Immunity.

10159-68
 SOME MICROBIOLOGICAL ASPECTS OF STAPHYLOCCAL MASTITIS.
 D G Dale
 Can J Comp Med Vet Sci 27(3):61-68, 59 REFS., 3 TABS.
 Mar 1963 41.8 C162
 Cattle, Mastitis, Milk, Sheep.

10160-68
 EFFECT OF AMPICILLIN ON E. COLI OF SWINE ORIGIN.
 D G Dale A G Blackwood
 Can J Comp Med Vet Sci 27(9):223-227, 13 REFS., 1 TAB.
 Sep 1963 41.8 C162
 Enteritis, Penicillin, Swine.

10161-68
 EPIDIDYMITIS OF RAMS. THE EFFECT OF THE NATURALLY OCCURRING DISEASE UPON FERTILITY.
 D R Devine
 Cornell Vet 50(2):102-106, 7 REFS., 3 TABS.
 Apr 1960 41.8 C81
 Epididymitis, Fertility, Sheep.

10162-68
 MULTIPLICATION AND CYTOPATHOGENICITY OF EASTERN ENCEPHALITIS VIRUS IN A DUCKLING KIDNEY CELL CULTURE SYSTEM.
 E Dougherty
 Avian Dis 5(1):116-120
 Feb 1961 41.8 AV5
 Culture media.

10163-68
 TOXICITY OF ORGANIC PHOSPHORUS INSECTICIDES TO HORSES.
 R O Drummond W B Buck L M Hunt
 J Sci Food Agr 12(1):1-29-3
 Jan 1961 382 SO12
 Dichlorvos, Dimethoate, Borses, Poisoning, Ruelene, Trichlorfon.

10164-68
 BOVINE LYMPHOSARCOMA. TEMPORARY SPONTANEOUS REMISSION IN A COW.
 D L Dungworth O C Straub
 Cornell Vet 50(4):429-439, 20 REFS., 1 TAB.
 Oct 1960 41.8 C81
 Cattle, Lymphosarcoma.

10165-68
 GROSS ABNORMALITIES IN CHICK EMBRYOS DUE TO CONTINUOUS HIGH TEMPERATURE.
 D F Evelth
 Avian Dis 5(2):177-182
 May 1961 41.8 AV5
 Chick embryos, Embryology.

10166-68
 OBSERVATIONS OF XANTHOMATOSIS IN CHICKENS.
 A I Flowers J N Beasley
 Can J Comp Med Vet Sci 27(6):146
 Jun 1963 41.8 C162
 Chickens, Xanthomatosis.

10167-68
 SITE OF PROTEIN SYNTHESIS IN CELLS INFECTED WITH PSEUDORABIES.
 S Fujiwara A S Kaplan
 Virology 32(1):60-68 REF
 May 1967 448.8 V81
 Cells, Proteins, Pseudorabies, Rabbits.
 Abstract

10168-68
 METABOLISM OF 32P-DELNAV IN CATTLE.
 P E Gatterdam D E Hopkins
 J Sci Food Agr 12(1):1-29-1
 Jan 1961 382 SO12
 Cattle, Dioxathion, Metabolism.

10169-68
 THE NEUTRALIZATION TEST AS AN INDICATOR OF IMMUNITY TO VIRUS DIARRHEA.
 J H Gillespie J A Baker
 Cornell Vet 50(4):503-509, 8 REFS.
 Oct 1960 41.8 C81
 Immunization, Virus diarrhea.

10170-68
 SEROLOGICAL TYPES OF PASTEURELLA HEMOLYTICA.
 M Gills B Knight
 Cornell Vet 50(3):283-300, 10 REFS., 3 TABS.
 Jul 1960 41.8 C81
 Pasteurella bacterins.

10171-68
 VIABILITY OF TESCHEN DISEASE VIRUS.
 A Girard
 Can J Comp Med Vet Sci 27(1):9-12, 7 REFS., 4 TABS.
 Jan 1963 41.8 C162
 Cold storage, Swine, Teschen disease virus.

10172-68
 ALEUTIAN DISEASE (PLASMACYTOSIS) OF MINK. III. PROPAGATION OF THE VIRUS IN MINK TISSUE CULTURES.
 D P Gray L Karstad
 Can J Comp Med Vet Sci 27(12):301-306, 10 REFS., 3 TABS.
 Dec 1963 41.8 C162
 Aleutian disease, Tissue culture.

10173-68
 INFECTIOUS BOVINE KERATOCONJUNCTIVITIS. II. SUSCEPTIBILITY OF LABORATORY ANIMALS TO MORAXELLA (HEMOPHILUS BOVIS).
 L C Grumbles
 Cornell Vet 50(4):445-458, 17 REFS., 4 TABS.

BIBLIOGRAPHY

30 10174-68

Oct 1960 41.8 C81
Cattle, Keratoconjunctivitis, Laboratory animals.

10174-68
DEMONSTRATION OF AN ANTIGENIC RELATIONSHIP BETWEEN HOG CHOLERA AND BOVINE VIRAL DIARRHEA VIRUSES BY IMMUNOFLUORESCENCE.
D E Gutekunst A L Fernelius E C Pirtle
Can J Comp Med Vet Sci 27(7):162-164, 3 REFS.
Jul 1963 41.8 C162
Bovine virus diarrhea virus, Hog cholera virus, Tissue culture.

10175-68
EXPERIMENTAL INFECTION OF WHITE-TAILED DEER WITH LEPTOSPIRA POMONA.
L E Hanson A B Hoerlein P D Beamer
Cornell Vet 50(3):236-250, 20 REFS.,
Jul 1960 41.8 C81
Deer, Leptospirosis.

10176-68
TRANSIENT REMISSION OF CANINE CIRCULATING MALIGNANT LYMPHOMA FOLLOWING VIRAL INFECTION.
H A Hartman W S Gochenour
Can J Comp Med Vet Sci 27(1):22
Jan 1963 41.8 C162
Dogs, Lymphoma, Venezuelan equine encephalomyelitis.

10177-68
ALEUTIAN DISEASE OF MINK. 1. EXPERIMENTAL TRANSMISSION OF THE DISEASE.
C G Helmboldt
Can J Comp Med Vet Sci 27(8):185
Aug 1963 41.8 C162
Aleutian disease, Minks.

10178-68
A LABORATORY-CONFIRMED CASE OF VIRUS ENCEPHALITIS (EASTERN EQUINE TYPE) IN A HORSE IN PENNSYLVANIA.
F M Hetrick G A Elliot R J Byrne
Cornell Vet 50(4):440-444, 6 REFS., 1 TAB.
Oct 1960 41.8 C81
Eastern equine encephalomyelitis, Horses.

10179-68
ETIOLOGY OF AN INFECTIOUS NEPHRITIS - NEPHROSIS SYNDROME OF CHICKENS.
S B Hitchener
Can J Comp Med Vet Sci 27(8):185
Aug 1963 41.8 C162
Chickens, Gumboro disease, Nephritis.

10180-68
SOME FACTORS INFLUENCING THE LOSSES OF PIGS PRIOR TO WEANING.
D E Holness J E Moxley
Can J Comp Med Vet Sci 27(10):237-240, 9 REFS.
Oct 1963 41.8 C162
Baby pigs, Mortality, Swine, Weights.

10181-68
DEVELOPMENTAL ABNORMALITIES OF THE CANINE SKULL.
Can J Comp Med Vet Sci 27(9):219-222, 9 REFS.
Sep 1963 41.8 C162
Animal abnormalities, Dogs, Skull.

10182-68
A CASE OF LABORATORY INFECTION IN MAN WITH RODENT-ADAPTED LEPTOSPIRA CANICOLA.
F Kemenes G Szarka
Can J Comp Med Vet Sci 27(2):41
Feb 1963 41.8 C162
Human diseases, Leptospira canicola bacterins, Oxytetracycline, Penicillin.

10183-68
FLUORESCENT ANTIBODY IN THE DIAGNOSIS OF RABIES.
A Kemron T A Nobel
Can J Comp Med Vet Sci 27(4):101-102
Apr 1963 41.8 C162
Fluorescent antibody technic, Rabies.

10184-68
COMPLEMENT TITRES OF NATURALLY AND ARTIFICIALLY RAISED PIGLETS. I. IN PIGLETS OF DIFFERENT BIRTH WEIGHTS.
C L Ecuyer
Can J Comp Med Vet Sci 27(7):157-161, 8 REFS., 3 TABS.
Jul 1963 41.8 C162
Animal breeding, Baby pigs, Complement.

10185-68
SUSCEPTIBILITY OF PLEUROPNEUMONIA-LIKE ORGANISMS TO BENZALKONIUM CHLORIDE.
Avian Dis 5(2):150-153
May 1961 41.8 AV5
Benzalkonium chloride, Pleuropneumonia-like organisms.

10186-68
FRAGMENTATION OF THE NUCLEUS IN ROUS SARCOMA VIRUS-INFECTED CHICK EMBRYO CELLS.
W Levinson
Virology 32(1):074-83 REF
May 1967 448.8 V81
Cells, Chick embryos, Culture media, Rous sarcoma virus. Abstract

10187-68
THE EFFECT OF THYROPROTEIN SUPPLEMENTATION OF THE RATION UPON THE PERFORMANCE OF EARLY WEANED PIGS.
L E Lloyd
Can J Comp Med Vet Sci 27(8):186-188, 11 REFS., 3 REFS.
Aug 1963 41.8 C162
Baby pigs, Casein, Feed.

10188-68
SEPARATION OF A SOLUBLE ANTIGEN AND INFECTIOUS PARTICLES OF BOVINE VIRAL DIARRHEA VIRUSES AND THEIR RELATIONSHIP TO HOG CHOLERA.
W A Malmquist
Can J Comp Med Vet Sci 27(5):121-123, 9 REFS., 2 TABS.
May 1963 41.8 C162
Antigens, Bovine virus diarrhea virus, Culture media, Hog cholera.

10189-68
FURTHER STUDIES ON CLOSTRIDIUM CHAUVEI INFECTIONS AND IMMUNITY IN LABORATORY ANIMALS.
F V Marini G R Personius
Cornell Vet 50(3):301-308, 9 REFS., 3 TABS.
Jul 1960 41.8 C81
Clostridium chauvei bacterins, Immunity, Laboratory animals.

10190-68
AFRICAN HORSE-SICKNESS WITH EMPHASIS ON PATHOLOGY.
R M McCullly
Can J Comp Med Vet Sci 27(11):273
Nov 1963 41.8 C162
African horse sickness, Asses, Horses, Viral vaccines.

10191-68
LABORATORY TRANSMISSION OF ROUS SARCOMA VIRUS BY AEDES AEGYPTI.
I N McDaniel H L Chute
Can J Comp Med Vet Sci 27(4):101
Apr 1963 41.8 C162
Aedes aegypti, Chicks, Rous sarcoma.

10192-68
EFFECTS OF INFECTIOUS BOVINE RHINOTRACHEITIS-INFECTIOUS PUSTULAR VULVOVAGINITIS (IBR-IPV) VIRUS ON NEWBORN CALVES.
K McEntee J H Gillespie
Cornell Vet 50(2):156-170, 14 REFS., 2 TABS.
Apr 1960 41.8 C81
Calves, Coital exanthema, Infectious bovine rhinotracheitis virus.

10193-68
THE IMPACT OF ANIMAL DISEASE ON HUMAN HEALTH AND WELFARE.
Can J Comp Med Vet Sci 27(7):165-168, 1 REF.
Jul 1963 41.8 C162
Animal diseases, Deficiency diseases, Public health.

10194-68
THE USE OF GALLAMYCIN FOR CONTROLLING INFECTIOUS ATROPHIC RHINITIS IN BACON PIGS.
Can J Comp Med Vet Sci 27(6):147-150, 16 REFS., 1 TAB.
Jun 1963 41.8 C162
Atrophic rhinitis, Swine.

10195-68
A COMPARISON OF BORMONE IMPLANTS FOR FATTENING EASTERN LAMBS.
Can J Comp Med Vet Sci 27(8):198-201, 11 REFS., 2 TABS.
Aug 1963 41.8 C162
Growth factors, Bormones, Lambs.

10196-68
SCRAPIE. I. TRANSMISSION AND PATHOGENESIS.
M Merriman M Beauregard R J Avery R Kasting
Can J Comp Med Vet Sci 27(4):81-84, 14 REFS., 1 TAB.

BIBLIOGRAPHY

30 10218-68

Apr 1963 41.8 C162
Brain, Scrapping, Sheep.

10197-68
METABOLISM AND DISTRIBUTION OF I-LABELLED ALBUMIN IN THE.
K Nielsen
Can J Comp Med Vet Sci 27(11):269-272, 21 REFS., 2 TABS.
Nov 1963 41.8 C162
Albumins, Metabolism, Swine.

10198-68
PATHOLOGY OF EPIZOOTIC BOVINE ABORTION.
H J Olander J A Haworth
Cornell Vet 50(4):417-429, 4 REFS.
Oct 1960 41.8 C81
Abortion, Cattle, Epizootic diseases.

10199-68
A CASE REPORT OF LYMPHOSARCOMA IN A COW WITH VERTEBRAL INVOLVEMENT.
H T Olander G H Theilen
Cornell Vet 50(3):251-258, 28 REFS., 1 TAB.
Jul 1960 41.8 C81
Cattle, Lymphosarcoma.

10200-68
THYROID CARCINOMA IN THE DOG. A CASE OF BONE-METASTASIZING THYROID CARCINOMA SIMULATING HYPERPARATHYROIDISM.
S Olsson J R Rooney
Cornell Vet 50(2):106-114, 8 REFS.
Apr 1960 41.8 C81
Carcinoma, Dogs, Thyroid gland.

10201-68
COMPARISON OF SERUM PROTECTION TESTS IN GUINEA-PIGS AND MICE FOR FOOT-AND-MOUTH DISEASE ANTIEODY EVALUATION.
Can J Comp Med Vet Sci 27(2):42-44, 10 REFS., 2 TABS.
Feb 1963 41.8 C162
Guinea pigs, Mice, Serum neutralization test.

10202-68
EXPERIMENTAL INFECTION OF OYSTERS (CRASSOSTREA GIGAS) WITH THIGMOTRICHID CILIATES.
G B Pauley K K Chew A K Sparks
J Invertebrate Pathol 9(2), 230-234.
Jun 1967 421 J826
Ciliates, Crassostrea gigas, Oysters, Parasitism, Thigmotrichidia.
Abstract

10203-68
AN OUTBREAK OF TYPE A2 INFLUENZA AMONG HORSES.
V Pavlinis A Boudreault E DiFranco
Can J Comp Med Vet Sci 27(11):257-260, 7 REFS., 4 TABS.
Nov 1963 41.8 C162
Equine influenza, Horses.

10204-68
SEROLOGICAL CLASSIFICATION OF ESCHERICHIA COLI.
Cornell Vet 50(1):9-14, 27 REFS.
Jan 1960 41.8 C81
Escherichia coli bacterin, Serological tests.

10205-68
ULTRASTRUCTURE OF SPORULATION IN THE OYSTER PATHOGEN DERMOCYSTIDIUM MARINUM.
F O Perkins R W Menzel
J Invertebrate Pathol 9(2), 205-229. REF.
Jun 1967 421 J826
Dermocystidium marinum, Oysters, Parasitism, Sporulation, Ultrastructure
Abstract

10206-68
IDENTIFICATION OF HOG CHOLERA VIRAL ANTIGEN BY IMMUNOFLUORESCENCE, APPLICATION AS A DIAGNOSTIC AND ASSAY METHOD.
E C Pirtle J F Torrey
Can J Comp Med Vet Sci 27(10):249-252, 6 REFS.
Oct 1963 41.8 C162
Antigens, Hog cholera virus, Spleen extract, Swine.

10207-68
ALEUTIAN DISEASE (PLASMACYTOSIS) OF MINK. II. RESPONSES OF MINK TO FORMALIN-TREATED DISEASED TISSUES AND TO SUBSEQUENT CHALLENGE WITH VIRULENT INOCULUM.
T J Pridham D P Gray
Can J Comp Med Vet Sci 27(5):124-128, 6 REFS., 2 TABS.
May 1963 41.8 C162
Aleutian disease, Formaldehyde, Immunization.

10208-68
EXPERIMENTAL LEPTOSPIROSIS IN PREGNANT EWES. III. PATHOLOGICAL FEATURES.
I M Reynolds T Sakai
Cornell Vet 50(2):115-122, 16 REFS., 1 TAB.
Apr 1960 41.8 C81
Leptospirosis, Pregnancy, Sheep.

10209-68
EXPERIMENTAL LEPTOSPIROSIS IN PREGNANT EWES. I. CLINICAL, BACTERIOLOGICAL, AND SEROLOGICAL FEATURES.
I M Reynolds T Sarai
Cornell Vet 50(1):34-46, 12 REFS., 2 TABS.
Jan 1960 41.8 C81
Abortion, Pregnancy, Sheep.

10210-68
THE EFFECT OF UNBEATED BOVINE SERUM ON THE COMPLEMENT-FIXING ACTIVITY OF HEAT-INACTIVATED BOVINE ANTISERUM WITH HOMOLOGOUS ANTIGEN. IV. CHROMATOGRAPHIC STUDIES.
C E Rice
Can J Comp Med Vet Sci 27(6):131-139, 24 REFS., 2 TABS.
Jun 1963 41.8 C162
Cattle, Chromatography, Complement fixation, Proteins, Serum.

10211-68
A BLEEDING DISEASE OF NEWBORN CALVES.
S J Roberts E M Katz
Cornell Vet 50(1):15-25, 18 REFS., 1 TAB.
Jan 1960 41.8 C81
Blood coagulation, Calves, Hematologic diseases.

10212-68
SOME ASPECTS OF CALCIUM METABOLISM IN THE DAIRY COW.
A Robertson
Can J Comp Med Vet Sci 27(8):202
Aug 1963 41.8 C162
Calcium, Dairy cattle, Metabolism.

10213-68
TOXOPLASMOSIS I. STUDIES BY THE FLUORESCIN-LABELLED ANTIBODY TECHNIQUE.
A Robertson G L Bannister P Boulanger M Beauregard
Can J Comp Med Vet Sci 27(2):27-33, 7 REFS., 4 TABS.
Feb 1963 41.8 C162
Complement fixation, Fluorescent antibody technic, Toxoplasmosis.

10214-68
STUDIES ON THE SEROLOGICAL RESPONSE AND PATHOGENICITY TO CHICKENS OF QUEENSLAND ISOLATE OF NEWCASTLE DISEASE VIRUS.
L E Rosenfeld G C Simmons
Australian Vet J 43(9), 400-404, MAP.
Sep 1967 41.8 A872
Blood, Newcastle disease virus, Poultry, Serological tests.
Abstract

10215-68
EXPERIMENTAL LEPTOSPIROSIS IN PREGNANT EWES. II. HEMATOLOGICAL FEATURES OF EWES AND FETUSES.
T Sakai R E Smith
Cornell Vet 50(2):89-102, 11 REFS.
Apr 1960 41.8 C81
Bematology, Leptospirosis, Sheep.

10216-68
STUDIES ON VIRUS DIARRHEA AND MUCOSAL DISEASE OF CATTLE.
M Savan
Can J Comp Med Vet Sci 27(9):207-214, 13 REFS., 2 TABS.
Sep 1963 41.8 C162
Cattle, Mucosal disease, Virus diarrhea.

10217-68
VIRAL ENCEPHALONEURITIS OF PIGS. A PRELIMINARY REPORT ON THE TRANSMISSIBILITY AND PATHOLOGY OF A DISEASE OBSERVED IN ONTARIO.
M Savan
Cornell Vet 50(2):132-155, 20 REFS., 1 TAB.
Apr 1960 41.8 C81
Baby pigs, Teschen disease.

10218-68
OVINE VIBRIONIC ABORTION CAUSED BY A NEW VARIETY OF VIBRIO.
A G Smith A J Baker
Cornell Vet 50(1):54-59, 4 REFS., 2 TABS.
Jan 1960 41.8 C81
Sheep, Vibriosis.

BIBLIOGRAPHY

30 10219-68

10219-68 PHYSIOLOGICAL PROPERTIES OF PATHOGENIC AND NONPATHOGENIC VIBRIO SPECIES ISOLATED FROM CATTLE, SHEEP AND CHICKENS. A G Smith Cornell Vet 50(3):331-338, 9 REFS., 2 TABS. Jul 1960 41.8 C81 Cattle, Chickens, Sheep, Vibrios.

10220-68 CHOLINE-INDUCED PYRIDOXIDE DEFICIENCY IN BROILER CHICKENS. A Sclycs C Humphres Australian Vet J 43(9), 346-348. Sep 1967 41.8 AV2 Choline, Deficiency diseases, Poultry, Vitamin b6. Abstract

10221-68 INFECTON OF CHICKS WITH RECENTLY ISOLATED NEWCASTLE DISEASE VIRUSES OF LOW VIRULENCE. T D St. George J J Percy Australian Vet J 43(9), 404-411. REF. Sep 1967 41.8 AV2 Chicks, Newcastle disease virus. Abstract

10222-68 ZOALENE A NEW ANTI-COCCIDIAL FOR CHICKEN. G T Stevenson R J Shaver J Sci Food Agr 12(1):I-28-1 Jan 1961 382 S012 Chickens, Coccidiocsis, Zoalene.

10223-68 VIRUS PNEUMONIA OF PIGS, ATTEMPTS AT PROPAGATION OF THE CAUSATIVE AGENT IN CELL CULTURES AND CHICKEN EMBRYOS. W P Switzer Can J Comp Med Vet Sci 27(4):91-99, 23 REFS., 3 TABS. Apr 1963 41.8 C162 Swine, Tissue culture, Virus pneumonia.

10224-68 PRECIPITATION REACTIONS IN AGAR BETWEEN SWINE SERUM AND HCMCLCGCUS PANCREAS EXTRACTS. Can J Comp Med Vet Sci 27(10):241-248, 26 REFS., 6 TABS. Oct 1963 41.8 C162 Agar, Hog cholera virus, Pancreatic extracts, Swine.

10225-68 USE OF THE AGAR DIFFUSION PRECIPITATION TEST IN THE DIAGNOSIS OF HOG CHOLERA. Can J Comp Med Vet Sci 27(11):275-279, 8 REFS., 1 TAB. Nov 1963 41.8 C162 Agar, Hcg cholera, Swine.

10226-68 SALMONELLA AND ARIZONA CULTURES FROM AGRICULTURAL SOURCES : 1959. Avian Dis 5(2):147-149 May 1961 41.8 AV5 Arizona, Culture media, Salmonella bacterins.

10227-68 PLAQUE PRODUCTION BY RINDERPEST VIRUS IN BOVINE KIDNEY CULTURES. Can J Comp Med Vet Sci 27(3):71-72, 8 REFS. Mar 1963 41.8 C162 Rinderpest virus, Serum neutralization test, Tissue culture.

10228-68 HERON AND EGRET LOSSES DUE TO VERMINOUS PERITONITIS. Avian Dis 5(2):135-138 May 1961 41.8 AV5 Peritonitis.

10229-68 INFLUENCE OF SALTS OF ETHYLEDIAMINETETRAACETIC ACID ON THE TRYPTOPHAN LOAD TEST IN PYRIDOXINE-DEFICIENT SWINE. Diss Abstr Sect B 27(11):3730B May 1967 Z5055.049D53 Deficiency diseases, Ethylenediaminetetraacetic acid, Swine, Tryptophan, Vitamin b6.

10230-68 SCURVY IN AN ELEPHANT. Cornell Vet 50(2):171-182, 3 REFS., 1 TAB. Apr 1960 41.8 C81 Ascorbic acid, Elephants, Scurvy.

10231-68 CYSTIC FIBROSIS, A DISEASE OF ANIMALS AS WELL AS MAN. Can J Comp Med Vet Sci 27(9):215-218, 5 REFS. Sep 1963 41.8 C162 Animal diseases, Human diseases, Pancreatic cystic fibrosis.

10232-68 STREPTOTHORICOSIS IN CATTLE. T F Valley Can J Comp Med Vet Sci 27(9):218 Sep 1963 41.8 C162 Cattle.

10233-68 ESCHERICHIA COLI AS A COMPLICATING FACTOR OF NEWCASTLE DISEASE VACCINATION. Avian Dis 5(1):132-134 Feb 1961 41.8 AV5 Escherichia coli bacterin, Newcastle disease.

10234-68 EFFECT OF ATROPHIC RHINITIS ON RATE OF GAIN IN SWINE. G E Whitmore R A Damon H O Hetzer H R Tribble Can J Comp Med Vet Sci 27(2):33 Feb 1963 41.8 C162 Atrophic rhinitis, Swine, Weights.

10235-68 ISOLATION AND CHARACTERIZATION OF A VIRUS FROM THE REPRODUCTIVE TRACT OF CATTLE. V J Yates C F Helmboldt Can J Comp Med Vet Sci 27(2):45-50, 13 REFS., 1 TAB. Feb 1963 41.8 C162 Dairy cattle, Vaginitis, Viruses.

10236-68 THE RELATIONSHIP OF PREGNANCY HORMONES TO BRUCELLACIDAL ACTIVITY IN BOVINE SERUM. V F Young Can J Comp Med Vet Sci 27(6):146 Jun 1963 41.8 C162 Brucellosis, Cattle, Chorionic gonadotropins, Pregnancy.

10237-68 ACARICIDE RESISTANCE AND CATTLE TICK CONTROL. Australian Vet J 43(9), 394-399. REF. Sep 1967 41.8 AV2 Acaricides, Cattle, Chemical control (pests), Insecticide resistant insects, Ixodidae.

10238-68 REPOPULATION BY AQUATIC INSECTS IN STREAMS SPRAYED WITH DDT. W H Kittams J H Pepper Entomol Soc Amer Ann 54(3):436-437 May 1961 420 EN82 Ddt, Pesticide residues, Plecoptera, Streams, Trichoptera.

10239-68 ULTRA-LOW-VOLUME AERIAL APPLICATION OF TRICHLORFON FOR CONTROL OF ADULT MOSQUITOES, FACE FLIES, AND HORN FLIES. F W Knapp J Econ Entomol 60 (4) 01193 15 Aug 1967 421 J822 Aedes sollicitans, Aerial spraying, Cattle, Chemical control (insects), Haematobia irritans, Musca autumnalis, Trichlorfon, Ultra-low-volume spraying.

10240-68 BAJA CALIFORNIA TRIATOMINAE (HEMIPTERA: REDUVIIDAE) AND THEIR HOSTS (RODENTIA: CRICETIDAE). A E Ryckman Entomol Soc Amer Ann 54(1):142-143, 2 REFS. Jan 1961 420 EN82 Cricetidae, Insect biology, Parasitism, Triatominae.

Arthropods

BIBLIOGRAPHY

30 10255-68

Parasites

10241-68
 A NOTE ON ASCARIDIA GALLI IN A HEN'S EGG FROM MANITOBA.
 Can J Comp Med Vet Sci 27(4):100, 6 REFS.
 Apr 1963 41.8 C162
 Canada, Chickens.

10242-68
 THRIACWORMS.
 Can J Comp Med Vet Sci 27(8):185
 Aug 1963 41.8 C162
 Dithiazanine, Dogs, Strongyloides.

10243-68
 CLINICAL PROBLEMS OF CHRONIC TRICHINELLOSIS.
 Can J Comp Med Vet Sci 27(3):72
 Mar 1963 41.8 C162
 Human diseases, Trichinosis.

10244-68
 A TRIAL ON THE EFFECT OF DIETHYLCARBAMAZINE ON PREPATENT AND PATENT PARASITIC FECAL CHITIS IN CALVES.
 <et. al.
 Can J Comp Med Vet Sci 27(7):161
 Jul 1963 41.8 C162
 Calves, Diethylcarbamazine, Vermicious bronchitis.

10245-68
 THE PATHOLOGY FOLLOWING SINGLE INFECTIONS OF CISTERIAGIA OSTERTAGI IN CALVES.
 E G Batte & R Bell
 Cornell Vet 50(3):223-235, 15 REFS., 1 TAB.
 Jul 1960 41.8 C81
 Calves, Ostertagiasis.

10246-68
 RESULTS OF EXPERIMENTS WITH NITROFURAZONE AND SULFAMETHAZINE FCR CONTROLLING COCCIDIOSIS IN CALVES.
 D L Ferguson & L Miner
 Cornell Vet 50(4):351-362, 6 REFS., 4 TABS.
 Oct 1960 41.8 C81
 Calves, Coccidiosis, Nitrofurazone, Sulfamethazine.

10247-68
 THE ACTIVITY OF AMPROLILUM IN EIMERIA TENELLA INFECTIONS.
 LABORATORY TRIALS.
 J I Gardiner
 Can J Comp Med Vet Sci 27(4):101
 Apr 1963 41.8 C162
 Chicks, Coccidiosis.

10248-68
 MEASUREMENTS OF BLOOD LOSS CAUSED BY HAEMONCHUS CONTORTUS INFECTION IN SHEEP.
 G K Kiesel & H Goby
 Can J Comp Med Vet Sci 27(9):214
 Sep 1963 41.8 C162
 Blood volume, Haemonchosis, Sheep.

10249-68
 CRITICAL TESTS OF HYGROMYCIN H AS AN ASCARICIDE OF SWINE.
 L S Olsen
 Cornell Vet 50(1):60-65, 7 REFS.
 Jan 1960 41.8 C81
 Ascariasis, Hygromycin H, Swine.

10250-68
 THE LESIONS CAUSED BY FILAROIDES MILKSI IN A DOG.
 Cornell Vet 50(3):319-325, 1 REF.
 Jul 1960 41.8 C81
 Dogs, Filariasis.

10251-68
 CRITICAL TESTS ON THIAHENDAZOLE AS AN ANTHELMINTIC IN SHEEP.
 J W Pullin
 Can J Comp Med Vet Sci 27(1):3-8, 11 REFS., 5 TABS.
 Jan 1963 41.8 C162
 Benzimidazole, Nematodiasis, Sheep.

10252-68
 SYSTEMIC INSECTICIDES FOR CATTLE GRUH CONTROL.
 C J Terhaar C C Roan
 J Sci Food Agr 12(1):1-29-2
 Jan 1961 382 S012
 Cattle, Coumaphos, Dimethoate, Hypoderma, Ronnel, Zectran.

10253-68
 GLOHULE LEUCOCYTE RESPONSE IN HYPERIMMUNE RATS INFECTED WITH NIPPOSTRONGYLUS BRASILIENSIS.
 J Comp Pathol 77(3), 271-277. REF.
 Jul 1967 41.8 J82
 Ancylostomatidae, Immunity, Rats.

10254-68
 THE EXSHEATHING FOR INFECTIVE LARVAE OF HAEMONCHUS CONTOCUS.
 J H Whitlock
 Cornell Vet 50(3):339-344, 6 REFS., 2 TABS.
 Jul 1960 41.8 C81
 Culture media, Haemonchosis, Larvae.

10255-68
 SUBSPECIATION IN HAEMONCHUS CONTOCUS (RUDOLPHI, 1803) NEHATA, TRICHOSTROGYLIDEA.
 J H Whitlock
 Cornell Vet 50(2):182-197, 17 REFS., 3 TABS.
 Apr 1960 41.8 C81
 Haemonchus contortus, Taxonomy.

BIBLIOGRAPHY

40 10256-68

40 COMMODITY PROTECTION

Storage Diseases

10256-68

LEATHER ROT OF LOUISIANA STRAWBERRIES ON THE CHICAGO MARKET IN 1964.
L Seghers M A Smith
Plant Dis Rep 48(10):747-748
15 Oct 1964 1.9 P69P
Leather rot (strawberries), Louisiana, Storage diseases, Strawberries.

10257-68

EFFECTS OF SOME FUNGICIDES ON THE FLAVOUR OF FRUITS AND SYRUPS.
G M Clarke
J Sci Food Agr 12(3):227-234, BIBL., TABS
Mar 1961 382 S012
Captan, Dinocap, Fruit processing, Gooseberries, Lime, Strawberries, Sulfur, Syrups, Taste testing, Thiram.

10258-68

THE NATURAL SKIN COATING OF THE APPLE AND ITS INFLUENCE ON SCALD IN STORAGE. I.-FAITY ACIDS AND HYDROCARBON.
J Sci Food Agr 15(7):436-443, BIBL. 443, TABS.
Jul 1964 382 S012
Apples, Cold storage, Fatty acids, Packing materials, Scald (apples).

10259-68

WAX EMULSION ADDITIVES FOR CONTROL OF STORAGE DECAY IN LEMONS.
P R Harding
Plant Dis Rep 51 (9) 0 781-784 REF
Sep 1967 1.9 P69P
Aminobutane, 2-, Borax, Dichloro-4-nitroaniline, 2,6-, Emulsions, Fungicides, Fungus diseases (plants), Lemons, Penicillium, Sodium orthophenylphenate, Storage diseases, Thiabendazole, Waxes.
Several chemicals, namely, borax, sodium orthophenylphenate, thiabendazole, 2-aminobutane, and 2,6-dichloro-4-nitroaniline, were tested separately in a wax emulsion for control of Penicillium mold decay in stored lemons. The lemons were scratch-inoculated with mold spores 24 hours before application. The wax emulsion with additives allowed decay as follows: 0.28 percent decay with 3 percent borax, 7.03 percent decay with 1.0 percent sodium orthophenylphenate tetrahydrate, 1.09 percent decay with 500 ppm thiabendazole, 26.97 percent decay with 0.5 percent 2-aminobutane and 3.08 percent decay with 0.5 percent 2,6-dichloro-4-nitroaniline. Thiabendazole and 2,6-dichloro-4-nitroaniline were more effective against Penicillium decay than were any of the other additives. Each of the two chemicals, however, was insoluble in the wax emulsion and had to be used as a non-colloidal suspension such suspensions required agitation at the time of using.

10260-68

FUMIGATION OF AGRICULTURAL PRODUCTS. XVII. CONTROL OF ASCOCHYTA BLIGHT OF PEAS BY FUMIGATION.
J Kennedy
J Sci Food Agr 12(1) 96-103, BIBL.
Jan 1961 382 S012
Ascochyta, Chloropicrin, Ethylene oxide, Mercury, Methyl bromide, Peas, Seeds.

10261-68

LOSS OF GERMINATION OF STORED CORN FROM INVASION BY STORAGE FUNGI.
I C Lopez C M Christensen
Phytopathology 55(2):125-126
Feb 1965 464.8 P56
Aspergillus, Corn, Fungi, Seed germination, Storage diseases.

10262-68

HARVEST PRACTICES THAT INCREASE SWEETPOTATO SURFACE ROT IN STORAGE.
Phytopathology 55(6):640-644, BIBL., TABS., PL.
Jun 1965 464.8 P56
Fusarium, Harvesting.

10263-68

FLEXIBILITY DESIRABLE IN FUNGICIDE RECOMMENDATIONS FOR EXTERNALLY SEED-BORNE CEREAL SMUT DISEASE CONTROL.
Plant Dis Rep 48(2):120-121
15 Feb 1964 1.9 P69P
Oats, Ustilaginaceae.

10264-68

INFLUENCE OF RELATIVE HUMIDITY ON FUNGI CAUSING CROWN ROT OF BOXED BANANAS.
Phytopathology 55(6):688-692, BIBL., PL.
Jun 1965 464.8 P56
Bananas, Crown rot (bananas), Fusarium, Humidity, Verticillium.

10265-68

ENTRY OF FUNGI AND CHEMICAL SUBSTANCES IN SOLUTION INTO MATURE CEREAL GRAINS.
J Sci Food Agr 12(3):169-174, BIBL.
Mar 1961 382 S012
Chemicals, Fungi, Fungicides, Grain, Seed germination.

Arthropods

10266-68

TRENDS IN THE CONTROL OF INFESTATION OF STORED PRODUCTS.
J Sci Food Agr 12(1):1-54-1
Jan 1961 382 S012
Insects, Storage.

10267-68

STORED-GRAIN INSECTS AND THEIR CONTROL IN NEW JERSEY.
J Sci Food Agr 12(1):1-54-2
Jan 1961 382 S012
Grain, Insects, Malathion, Pyrethrum, Storage.

10268-68

P M Davey
J Sci Food Agr 12(3):177-187, BIBL., TABS.
Mar 1961 382 S012
Bags, Chemical control (insects), Ddt, Food, Insects, Paper containers.

10269-68

STUDIES ON DIFFERENT TYPES OF PACKING TO PROTECT WRAPPER TOBACCO FROM STORAGE PESTS.
B G Joshi W G Walunjkar R S N Rao
Indian J Entomol 29(2) 0200-205
Jun 1967 420 IN23
Demobrotis, Dieldrin, Fumigation, Gunny, Hydrocyanic acid, Lasioderma serricorne, Packing, Polyethylene, Storage, Tobacco.
Abstract

10270-68

DOSAGE-TIME RELATIONSHIPS BETWEEN CARBON TETRACHLORIDE-CARBON DISULPHIDE (80:20) AND ADULT RICE WEEVILS, SITOPHILUS ORYZAE.
G F Krause
J Sci Food Agr 15(12):II-319-1
Dec 1964 382 S012
Carbon disulfide, Carbon tetrachloride, Fumigation, Sitophilus.

10271-68

ATMOSPHERIC GAS ALTERATION AND INSECT CONTROL IN PEANUTS STORED AT VARIOUS TEMPERATURES IN HERMETICALLY SEALED CONTAINERS.
A F Press P K Harein
J Econ Entomol 60 (4) 01043-1046
15 Aug 1967 421 J822
Controlled atmosphere storage, Insect control, Peanuts, Storage, Temperature, Tribolium castaneum.
Abstract

50 ENVIRONMENTAL CONTAMINATION

55 RESIDUES

10272-68
FATE OF 3-AMINO-1,2,4-TRIAZOLE IN SOILS.
D E H Frear
J Sci Food Agr 15(8):II-85-5, 11 REFS.
Aug 1964 382 S012
Amitrole, Soil chemistry, Soil microorganisms.

10273-68
CONCENTRATION OF DIMEFOX IN AIR RESULTING FROM ITS USE ON HOPS.
J C Tweddle
J Sci Food Agr 15(7):II-23-9, 14 REFS.
Jul 1964 382 S012
Agricultural labor, Air, Assay, Dimefox, Hops, Toxicology.

10274-68
RESIDUES OF ALDRIN AND DIELDRIN ON CARROTS AND THEIR INFLUENCE ON THE BIOLOGICAL VALUE.
J Sci Food Agr 12(2):I-102-1
Feb 1961 382 S012
Aldrin, Carrots, Dieldrin, Human nutrition, Insecticide residues.

10275-68
PESTICIDE RESIDUES INVESTIGATIONS ON RAW AGRICULTURAL COMMODITIES.
J Sci Food Agr 15(9):II-125-8
Sep 1964 382 S012
Agricultural products, Pesticide residues.

10276-68
DETERMINATION OF RESIDUAL PHOSPHINE IN FUMIGATED GRAIN.
J Sci Food Agr 12(1):I-54-3
Jan 1961 382 S012
Grain, Pesticide residues, Phosphine.

10277-68
RESIDUE DATA - DEFINITIONS AND PRESENTATION.
J Sci Food Agr 15(12):II-320-4
Dec 1964 382 S012
Nomenclature, Pesticide residues, Report writing.

10278-68
TOXICITY OF SOME HERBICIDES TO FISH.
G Bodenstein G Mueller-Bastgen
J Sci Food Agr 12(1) I-22-6
Jan 1961 382 S012
Dalapon, Fish, MCPA, Monuron, Pesticide residues, 2,4,5-T.

10279-68
FLAVOR OF PEANUTS GROWN IN PHORATE-TREATED PLOTS.
J L Brogdon E H Dawson
J Econ Entomol 60 (4) 01162-1163
15 Aug 1967 421 J822
Diabrotica undecimpunctata, Insecticide residues, Peanut butter, Peanuts, Phorate.

10280-68
PERSISTENCE OF CERTAIN PESTICIDES IN THE SOIL AND THEIR EFFECT ON CROP YIELDS.
D Chisholm C R MacEachern
J Sci Food Agr 12(3):I-126-1
Mar 1961 382 S012
Arsenic, Benzene hexachloride, Chlordane, Crop yields, Ddt, Parathion, Pesticide residues.

10281-68
EFFECT OF CONSECUTIVE TREATMENTS OF ALDRIN AND HEPTACHLOR ON RESIDUES IN RUTABAGAS AND CARROTS AND ON CERTAIN SOIL ARTHROPODS AND YIELD.
D Chisholm D K R Stewart
J Sci Food Agr 15(9):II-126-5
Sep 1964 382 S012
Aldrin, Carrots, Food quality, Heptachlor, Insecticide residues, Rutabagas, Soil insects.

10282-68
INSECTICIDE RESIDUES ON FORAGE UNDER SPRAYED PECAN TREES.
L H Dawsey D W Woodham
J Sci Food Agr 12(3):I-128-5
Mar 1961 382 S012
Azinphosmethyl, Epn, Grasses, Insecticide residues, Parathion.

10283-68
EFFECTS OF TREATMENT CONDITIONS ON O-PHENYLPHENOL RESIDUES IN ORANGES.
W Greerson
J Sci Food Agr 12(1):I-36-1
Jan 1961 382 S012
Oranges, Pesticide residues.

BIBLIOGRAPHY

55 10284-68

10284-68
RESIDUES OF ORGANIC MERCURY COMPOUNDS IN APPLE.
W H Gutenmann W D Mills K G Parker
Plant Dis Rep 48(7):525-527
15 Jul 1964 1.9 P69P
Apples, Mercury compounds, Pesticide residues.

10285-68
RESIDUE STUDIES WITH 2,4-DICHLOROPHOENOXYACETIC ACID HERBICIDE IN THE DAIRY COW AND IN A NATURAL AND ARTIFICIAL RUMEN.
D D Hardee R F Holland L J Lisk
J Sci Food Agr 15(7):II-32-5
Jul 1964 382 S012
D, 2,4-, Dairy cattle, Herbicide residues, Milk, Rumen.

10286-68
RESIDUES IN WHEAT AND WHEAT PRODUCTS AFTER FUMIGATION WITH ETHYLENE DIBROMIDE.
S G Heuser
J Sci Food Agr 12(2) 103-115, HIBL., TAHS.
Feb 1961 382 S012
Ethylene dibromide, Flour, Insecticide residues, Wheat.

10287-68
HUMIDITY EFFECTS ON THE PERSISTENCE OF MALATHION LEAF-SURFACE RESIDUES.
T I Hopkins
J Econ Entomol 60 (4) 01167-1168
15 Aug 1967 421 J822
Beans, Humidity, Insecticide residues, Malathion, Persistence.

10288-68
TRIPHENYLTIN COMPOUNDS IN CLOTH PROTECTION AND THE DETERMINATION OF RESIDUES.
E Kroeller
J Sci Food Agr 12(2) I-75-5
Feb 1961 382 S012
Pentin acetate, Pesticide residues.

10289-68
ENDRIN, TOXAPHENE, AND DALAFON EFFECTS ON HIRDSFOOT TREFOIL SEED YIELDS AND RESIDUE DISAPPEARANCE.
G H MacCollom T R Flanagan
J Econ Entomol 60 (4) 01174-1175
15 Aug 1967 421 J822
Hirdsfoot trefoil, Crop yields, Dalapon, Endrin, Insecticide residues, Seeds, Toxaphene.

10290-68
DDT AND DIELDRIN RESIDUES ON PASTURE FOLLOWING DUSTING AND SPRAYING.
E J Mills C T Johnson
J Sci Food Agr 15(7):II-24-7, 10 REFS.
Jul 1964 382 S012
Ddt, Dieldrin, Dusting, Insecticide residues, Pastures, Spraying.

10291-68
GROWTH DILUTION AS A FACTOR IN THE DECLINE OF PESTICIDE RESIDUES ON LUCERNE-GRASS FORAGE.
W W Sans B H Wressell G F Manson
J Sci Food Agr 15(7):II-24-6
Jul 1964 382 S012
Alfalfa, Azinphosmethyl, Carbaryl, Endosulfan, Malathion, Methoxychlor, Plant physiology, Toxaphene.

10292-68
MERCURY RESIDUES ON APPLE FRUIT AND FOLIAGE.
D K R Stewart
J Sci Food Agr 12(3):I-127-5
Mar 1961 382 S012
Apples, Mercury, Pesticide residues.

10293-68
RESIDUES IN VEGETABLE CROPS FOLLOWING SOIL APPLICATIONS OF INSECTICIDES.
M W Stone F Foley
J Sci Food Agr 12(3):I-128-8
Mar 1961 382 S012
Aldrin, Chlordane, Ddt, Dieldrin, Insecticide residues, Toxaphene, Vegetables.

10294-68
OREGON CRANBERRY EGG STUDY FOR 3-AMINO-1,2,4-TRIAZOLE RESIDUES, 1961-2.
R W Storherr A J Culver
J Sci Food Agr 15(7):II-24-8
Jul 1964 382 S012
Amitrole, Cranberry bogs, Herbicide residues.

10295-68

TOXAPHENE RESIDUES ON PANGOLA GRASS.
C H Van Middlehem W G Genung E G Kelsheimer L C Kuitert
J Sci Food Agr 12(2) I-75-2
Feb 1961 382 S012
Cattle, Digitaria, Insecticide residues, Toxaphene.

10296-68

DETERMINATION OF ORGANIC FLUORINE RESIDUES IN BLACKCURRANTS.
R Wood
J Sci Food Agr 12(1):I-36-2
Jan 1963 382 S012
Currants, Fluorine, Pesticide residues.

10297-68

RESIDUE ANALYSIS OF A CHLORINATED INSECTICIDE (THIODAN) BY COMBINATION OF GAS CHROMATOGRAPHY AND INFRA-RED SPECTROPHOTOMETRY.
G Zweig T E Archer D Rubenstein
J Sci Food Agr 12(2) I-75-6
Feb 1961 382 S012
Chromatography, Pesticide residues, Spectrophotometry.

60 TOXICOLOGY

65 PLANT PHYSIOLOGY AND BIOCHEMISTRY

10298-68
DETERMINATION OF 2-ISOVALERYL-1,3-INDANDIONE WITH 2,4-DINI-TROPHENYLHYDRAZINE.
V A Adomaitis W L Reichel
Anal Chem 34 (4-7):516
Apr 1962 381 J825A
Pival.

10299-68
THE BACTERICIDAL EFFECT OF SEAWATER UNDER NATURAL CONDITIONS.
H H Carter J H Carpenter R C Whaley
Water Pollut Contr Fed J 39 (7), 1184-1189.
Jul 1967 293.8 S88
Bactericides, Saline water.

10300-68
SLUG AND SNAIL CONTROL WITH EXPERIMENT POISON BAITS.
H H Crowell
J Econ Entomol 60 (4) 01048-1050
15 Aug 1967 421 J822
Baits, Chemical control (pests), Poisons, Slugs, Snails.
Abstract

10301-68
SELECTIVE TOXICITY OF CERTAIN HYDROCARBONS TO HYPERPLASTIC TISSUES.
D C Hildebrand J F Thompson
Phytopathology 55 (2):126
Feb 1965 464.8 P56
Crown galls, Hydrocarbons, Toxicology.

10302-68
EFFECT OF IBCF ON VARIOUS SPECIES AND VARIETIES OF WOODY ORNAMENTALS.
W R Jenkins
Plant Dis Rep 48 (6):499
15 Jun 1964 1.9 P69P
Ornamental plants, 1,2-dibromo-3-chloropropane.

10303-68
APPLICATION OF GAS CHROMATOGRAPHY TO ANALYTICAL TOXICOLOGY.
C Knotlock
Anal Chem 35 (10):1448-1452, 9 REFS.
Sep 1963 381 J825A
Chromatography, Gases, Toxicology.

10304-68
NEMATOCIDAL ACTIVITY AGAINST PRATYLENCHUS PENETRANS BY METABOLITES FROM ACTINOMYCETES AND BACTERIA.
C H Specht J Bekker
Phytopathology 55 (2):131
Feb 1965 464.8 P56
Actinomycetes, Bacteria, Metabolites, Nematocides, Pratylenchus.

10305-68
A NEW RESIDUAL NEMATOCIDE: 2,4-EICHLOROPHENYL METHANESULFONATE.
L V White S T Ichikawa
Plant Dis Rep 48 (8):634-635
15 Aug 1964 1.9 P69P

10306-68
SUITABILITY OF DIFFERENT SYNTHETIC AND COMPLEX MEDIA FOR THE PRODUCTION OF FUNGISTATIC ANTIBIOTICS FROM ACTINOMYCETES.
J Sci Food Agr 15 (7):II-21-7
Jul 1964 382 S012
Antibiotics, Culture media, Fungicides, Oats.

10307-68
METABOLISM OF TRIAZINE HERBICIDES BY PLANTS.
MONTGOMERY, M L.
J Sci Food Agr 15 (8):II-85-2, 24 REFS.
Aug 1964 382 S012
Plant metabolism, Triazines.

10308-68
ADAPTED TOLERANCE OF RHIZOCTONIA SOLANI TO INCREASED CONCENTRATION OF THREE SOIL FUNGICIDES.
J Sci Food Agr 15 (7):II-24-5
Jul 1964 382 S012
Dichlone, Maneb, Pentachloronitrobenzene, Plant adaptation, Rhizoctonia.

10309-68
TOLERANCE OF SEVERAL GRASS SPECIES TO 2-CHLORO-S-TRIAZINE HERBICIDES IN RELATION TO DEGRADATION AND CONTENT OF BENZOXAZINONE DERIVATIVES.
J Sci Food Agr 15 (8):II-85-6, 19 REFS.
Aug 1964 382 S012
Atrazine, Grasses, Plant metabolism, Simazine.

10310-68
LIMITING VALUES FOR THE FUNGICIDAL ACTION OF CHEMICAL SUBSTANCES UNDER DIFFERENT CONDITIONS.
J Sci Food Agr 15 (7):II-20-1
Jul 1964 382 S012
Fungi, Fungicides, Pesticide application, Plant physiology.

10311-68
COMPLEXES OF 3-AMINO-1,2,4-TRIAZOLE IN PLANT METABOLISM.
J Sci Food Agr 15 (8):II-85-4
Aug 1964 382 S012
Amino acids, Amitrole, Antimetabolites, Plant metabolism.

10312-68
THIOPHOSGENE SPLIT FROM CAPTAN BY YEAST.
J Sci Food Agr 15 (7):II-23-8
Jul 1964 382 S012
Biological assay, Captan, Cysteine, Serine, Yeasts.

10313-68
UPTAKE OF COPPER BY FUNGAL CELLS.
J Sci Food Agr 15 (7):II-20-7
Jul 1964 382 S012
Biological transport, Copper, Fungi, Ion exchange, Permeability.

10314-68
VIRULENCE, HOST RANGE, AND PECTOLIC ENZYMES OF SINGLE-BASIDIOSPORE ISOLATES OF RHIZOCTONIA PRATICOLA AND RHIZOCTONIA SOLANI.
W A Ayers
Phytopathology 55 (1):111-116, BIBL., TABS.
Jan 1965 464.8 P56
Beans, Cabbage, Host range, Lettuce, Radishes, Rhizoctonia, Sugar beets, Virulence.

10315-68
METABOLISM AND TRANSLOCATION OF 3-AMINO-1,2,4-TRIAZOLE BY CANADA THISTLE.
W P Bagley
J Sci Food Agr 15 (8):II-85-3, 17 REFS.
Aug 1964 382 S012
Amitrole, Cirsium, Plant metabolism, Plant translocation.

10316-68
A METABOLITE FROM ALTERNARIA TENIUS THAT INHIBITS CHLOROPHYLL PRODUCTION.
K Bollenbacher G E Templeton
Phytopathology 55 (1):49-51, BIBL., PL.

BIBLIOGRAPHY

65 10317-68

Jan 1965 464.8 P56
Alternaria, Chlorophylls, Chlorosis (plants), Cotton.

10317-68
 SOME EFFECTS OF VITAMINS ON GROWTH AND DIFFERENTIATION IN VERTICILLIUM.
 W H Brandt
Plant Dis Rep 48(8):649-652
 15 Aug 1964 1.9 P69P
 Growth factors, Verticillium, Vitamins.

10318-68
 DEGRADATION OF RNA BY PHYTOPHTHORA INPESTANS.
Phytopathology 55(3):259-261, BIBL. 261
 Mar 1965 464.8 P56
Phytophtora, Ribonucleic acid.

10319-68
 CONTROL OF CYTOCHROME C SYNTHESIS BY ZINC IONS IN USTILAGO SPHAEROGENA.
 R A Cappellini C A Price
Phytopathology 55(2):127
 Feb 1965 464.8 P56
Cytochromes, Ions, Ustilago, Zinc.

10320-68
 AN ISOLATE OF BACILLUS SP. ANTAGONISTIC TO CERTAIN MEMBERS OF THE FUNGUS FORM-FAMILY DEMATIACEAE IN CULTURE.
Phytopathology 55(5):500
 May 1965 464.8 P56
Antibiosis, Bacillus, Culture media, Dematiaceae.

10321-68
 SPORULATION AND STROMA DEVELOPMENT BY CERCOSPORELLA HERPOCRITHCIDES.
Phytopathology 55(2):127
 Feb 1965 464.8 P56
Sporulation.

10322-68
 TOXIN-PRODUCING ABILITY OF ASPERGILLUS FLAVUS STRAINS GROWN ON PEANUTS AND AN ARTIFICIAL MEDIUM.
 N D Davis
Phytopathology 55(5):497-498
 May 1965 464.8 P56
Aflatoxin, Aspergillus, Culture media, Peanuts, Toxicology.

10323-68
 AFLATOXIN PRODUCTION BY ASPERGILLUS FLAVUS IN A CHEMICALLY DEFINED LIQUID MEDIUM.
 N D Davis U L Diener V P Agnihotri
Phytopathology 55(5):498
 May 1965 464.8 P56
Aflatoxin, Aspergillus, Culture media.

10324-68
 ALKALINE DEGRADATION OF TOBACCO MOSAIC VIRUS INHIBITED BY RIBONUCLEASE AND CERTAIN OTHER PROTEINS.
 P B Desjardins
Phytopathology 55(5):503-504
 May 1965 464.8 P56
Hydrogen-ion concentration, Mosaic (tobacco), Proteins, Ribonuclease, Tobacco.

10325-68
 EFFECT OF OXYGEN AND CARBON DIOXIDE TENSIONS ON GROWTH OF FUSARIUM OXYSPORUM F. TRACHEIPHILUM IN VITRO.
 P D Dukes S F Jenkins Jr
Phytopathology 55(5):502
 May 1965 464.8 P56
Carbon dioxide, Culture media, Fusarium, Oxygen.

10326-68
 A SUBSTANCE TOXIC TO DOTHIDELLA OLEI FOUND IN LEAVES OF HEVEA BRASILIENSIS.
 E Echandi
Phytopathology 55(2):125
 Feb 1965 464.8 P56
Hevea, Seed germination, Toxicology.

10327-68
 TIP BURN, AND OXIDANT INCITED RESPONSE OF CARNATIONS.
 W A Feder F J Campbell N W Butterfield
Plant Dis Rep 51 (9) 0 793
 Sep 1967 1.9 P69P
Air pollution, Dianthus caryophyllus, Plant injuries, Tipburn (Dianthus caryophyllus).

10328-68
 SOME EFFECTS OF ATRAZINE OF SCLEROTIUM ROLFSII AND INHIBITORY SOIL MICROORGANISMS.
 H H Funderburk Jr
Phytopathology 55(5):497
 May 1965 464.8 P56
Atrazine, Population.

10329-68
 THE MICROFLORA OF NATURAL SCLEROTIA OF SCLEROTIUM ROLFSII AND SOME EFFECTS UPON THE PATHOGEN.
 J D Hansen
Plant Dis Rep 48(6):446-450
 15 Jun 1964 1.9 P69P
Ecology, Sclerotium rolfsii.

10330-68
 BETA-GLUCOSIDASE IN ERWINIA AMYLOVORA AND PSEUDOMONAS SYRINGAE.
 D C Hildebrand
Phytopathology 55(1):31-33, BIBL.
 Jan 1965 464.8 P56
Erwinia, Pseudomonas.

10331-68
 FUNGITOXICITY OF M-DIOXANES.
 J G Horsfall
Phytopathology 55(2):129
 Feb 1965 464.8 P56
Monilinia, Stemphylium.

10332-68
 OXYGEN AS A DISTURBANCE FACTOR TO ANAEROBIOSIS IN RICE FIELDS.
 J W Jordan J P Hollis
Phytopathology 55(5):501
 May 1965 464.8 P56
Anaerobic bacteria, Nematodes, Oxygen, Rice.

10333-68
 EFFECT OF DITYLENCHUS DIPSACI ON CERTAIN NITROGEN COMPOUNDS IN ALFALFA AND PEA.
 L R Krusberg
Phytopathology 55(5):504-505
 May 1965 464.8 P56
Alfalfa, Ditylenchus, Peas.

10334-68
 LIPIDS STIMULATING SEXUAL REPRODUCTION AND GROWTH IN PHYTHIACEOUS FUNGI.
 J F Lenney
Phytopathology 55(3):320-323, TABS.
 Mar 1965 464.8 P56
Fungi, Growth factors, Lipids, Phytophtora, Pythium.

10335-68
 STUDIES WITH THE PERFECT STAGE OF GLOEOSPORIUM MUSARUM FROM BANANA.
 F L Lurezic
Phytopathology 55(2):125
 Feb 1965 464.8 P56
Bananas, Gloeosporium, Glomerella cingulata, Perithecia, Seed germination.

10336-68
 THE EFFECT OF LIGHT QUALITY ON THE GROWTH AND MICROSCLEROTIAL PRODUCTION OF VERTICILLIUM ALBO-ATRUM.
 A Mahadevan B G Mozumder
Plant Dis Rep 48(6):484-486
 15 Jun 1964 1.9 P69P
Verticillium.

10337-68
 USE OF ANTIBIOTICS IN ASEXUAL PROPAGATION OF CAULIFLOWER.
 N S Mansour
Plant Dis Rep 48(8):623-625
 15 Aug 1964 1.9 P69P
Agrimycin, Antibiotics, Asexual reproduction, Cauliflower.

10338-68
 VARIABILITY IN THE GENUS PHYTOPHTHORA. I. EFFECTS OF NITROGEN SOURCES AND PH ON GROWTH.
 G M Milbradt
Phytopathology 55(6):653-657, BIBL., TABS., PL.
 Jun 1965 464.8 P56
Culture media, Hydrogen-ion concentration, Nitrogen, Phytophtora.

BIBLIOGRAPHY

65 10360-68

10339-68
EFFECTS OF TEMPERATURE AND RELATIVE HUMIDITY ON GERMINATION OF RHIZOPUS STOLONIFER AND MONILINIA FRUCTICOLA SPORES.
W H Miller & D Bassett
Phytopathology 55(6):604-606, BIBL., TABS., PL.
Jun 1965 464.8 P56
Humidity, Monilinia, Rhizopus, Seed germination, Spores, Temperature.

10340-68
DETECTION OF COMPOUNDS THAT INHIBIT VEGETATIVE BUD GROWTH OF TOBACCO.
J W Mitchell
J Sci Food Agr 15(8):II-77-7
Aug 1964 382 S012
Plant budding, Plant regulators, Tobacco.

10341-68
THE EFFECT OF LOW DOSES OF PARAQUAT AND DALAPON ON TWO SWARD TYPES BASED ON LCLLIUM PERENNE L. (PERENNIAL RYEGRASS) AND TRIFOLIUM REPENS L. (WHITE CLOVER).
Weed Res 4(4):359-361, 3 REFS.
Dec 1964 79.8 W412
Dalapcon, Lolium, Lolium perenne, Paraquat, White clover.

10342-68
THE EFFECTS OF SUB-LETHAL DOSES OF MCPA ON THE MORPHOLOGY AND YIELD OF VEGETABLE CROPS. III. CARROTS AND PARSNIPS.
Weed Res
Jun 1963 79.8 W412
Carrots, Crop yields, MCPA, Parsnips, Plant morphology, Plant physiology.

10343-68
AN EXOCYTIC PECTOLYTIC ENZYME OF APHANOMYCES EUTEICHES.
G C Papavizas
Phytopathology 55(3):249-253, BIBL., TABS.
Mar 1965 464.8 P56
Aphanomyces, Enzymes, Pectic acid, Pectins.

10344-68
SIMULTANEOUS DETECTION OF POLYGALACTURONATE TRANS-ELIMINASE AND POLYGALACTURONASE IN CULTURE FILTRATES OF RHIZOCTONIA.
G C Papavizas
Phytopathology 55(5):503
May 1965 464.8 P56
Culture media, Pectinase, Rhizoctonia.

10345-68
THE NATURE OF LOCALIZED CHROMOSOME BREAKAGE INDUCED BY ETHYL METHANESULFONATE IN Vicia FABA.
Diss Abstr Sect B 27(11)03791B
May 1967 25055.04953
Actinomycin d, Broadbeans, Chromosomes, Ethyl methanesulfonate. Effects of actinomycin d on mutagenicity of ethyl methanesulfonate.

10346-68
EFFECT OF THE APPLICATION OF SCIL PESTICIDES ON THE GERMINATION AND GROWTH OF WHEAT.
J N Sachan J K Verma B P Srivastava
Indian J Entomol 29(2):0185-188
Jun 1967 420 IN23
Aldrin, Chlordane, Dieldrin, Insecticides, Pesticide application, Phytotoxicity, Seed germination, Seedlings, Soils, Wheat.
Abstract

10347-68
CLONES FROM SEGREGATING PROGENIES OF GARDEN PEA DEMONSTRATE THAT RESISTANCE TO BV2 AND PV2 IS CONDITIONED BY THE SAME GENOTYPE.
W T Schroeder R Prowvident W Mishanec
Plant Dis Rep 48(5):353-355
15 May 1964 1.9 F69P
Clones, Peas, Plant disease resistance.

10348-68
PATHOGENICITY OF PLANT AND ANIMAL ISOLATES OF GEOTRICHUM CANDIDUM ON CERTAIN FRUITS AND VEGETABLES.
J B Sinclair
Phytopathology 55(5):498
May 1965 464.8 P56
Immunization, Pathogenicity, Plants.

10349-68
SURVIVAL OF MELOIDOGYNE HAPLA AND VERTICILLIUM DABLLAE IN PLANT TISSUES USED FOR ANIMAL FEED.
C B Skotland W W Beinemann

10350-68
Phytopathology 55(3):257-258, BIBL.
Mar 1965 464.8 P56
Feed, Meloidogyne, Verticillium.

10351-68
CALICOLOUS TELIA AND UREDIA OF CRONARTIUM FUSIFORME.
G A Snow
Plant Dis Rep 48(5):366
15 May 1964 1.9 P69P
Cronartium fusiforme, Uredia.

10352-68
AMINO ACIDS RELEASED DURING GERMINATION OF S35-LABELED CROWN RUST SPORES.
J P Snow
Phytopathology 55(5):499-500
May 1965 464.8 P56
Amino acids, Crown rust (oats), Oats, Radioactive tracers, Seed germination, Spores.

10353-68
ULTRASTRUCTURE STUDIES ON SOMATIC HYphae OF RHIZOCTONIA SOLANI.
M D Socolofsky
Phytopathology 55(5):501
May 1965 464.8 P56
Rhizoctonia, Ultrastructure.

10354-68
ON THE REGENERATION OF ROOT FRAGMENTS OF LEAFY SPURGE (EUPHORBIA ESULA L.).
T A Steeves R T Coupland
Weed Res 4(1):2-11, 15 REFS., 2 TABS.
Mar 1964 79.8 W412
Euphorbia esula, Plant reproduction.

10355-68
EFFECT OF GALIC ACID ON GERMINATION, GROWTH, AND SPORULATION OF BOTRYOTINI A RICINI.
C A Thomas
Phytopathology 55(4):468-470, BIBL., PL.
Apr 1965 464.8 P56
Gallic acid, Seed germination, Sporulation.

10356-68
INHIBITION OF GERMINATION OF ALTERNARIA SPORES BY SULFUR DIOXIDE UNDER VARIOUS MOISTURE CONDITIONS.
Phytopathology 55(5):525-527, BIBL.
May 1965 464.8 P56
Alternaria, Humidity, Seed germination, Spores, Sulfur dioxide.

10357-68
ISOLATION PROCEDURES INFLUENCE THE APPARENT MAKE-UP OF THE TERRESTRIAL MICROFLORA OF PEANUT PODS.
Plant Dis Rep 48(5):344-348
15 May 1964 1.9 P69P
Ecology, Methodology, Peanuts, Soil microorganisms.

10358-68
A DELETERIOUS INTERACTION BETWEEN A FUNGICIDE AND SYSTEMIC INSECTICIDES ON COTTON.
Plant Dis Rep 48(4):241-245
15 Apr 1964 1.9 P69P
Cotton, Fungicides.

10359-68
ISOLATION AND IDENTIFICATION OF 3-INDOLEACETIC ACID FROM FUSARIUM OXYSPORUM F. CUBENSE.
Phytopathology 55(2):240-241, BIBL.
Feb 1965 464.8 P56
Fusarium.

10360-68
INFLUENCE OF PREVIOUS ENVIRONMENT UPON RESPONSE TO PARAQUAT.
Weed Res 4(4):357-358, 7 REFS.
Dec 1964 79.8 W412
Environment, Festuca rubra, Lolium perenne, Paraquat.

10360-68
ECOLOGY OF PLANT PATHOGENS IN SOIL IV. PATHOGENICITY OF MACROCONIDIA OF FUSARIUM ROSEUM F. SP. CEREALIS PRODUCED ON MEDIA OF HIGH OR LOW NUTRIENT CONTENT.
Phytopathology 55(3):328-329
Mar 1965 464.8 P56
Culture media, Fusarium, Nutrient solutions (plants), Pathogenicity, Soil fungi.

BIBLIOGRAPHY

65 10361-68

10361-68
 FACTORS AFFECTING SPORANGIA PRODUCTION IN PHYTOPHTHORA
 CINNAMOMI.
Phytopathology 55(5):505
 May 1965 464.8 P56
Phytophthora.

10362-68
 EFFECTS OF HUMIDITY AND TEMPERATURE ON ZOOSPORANGIA
 PRODUCTION AND GERMINATION OF PHYTOPHTHORA COLOCASIAE.
Phytopathology 55(2):126
 Feb 1965 464.8 P56
 Humidity, *Phytophthora*, Temperature.

10363-68
 SOME CHARACTERISTICS OF POLYGALACTURONASES PRODUCED BY
 VERTICILLIUM ALBIC-ATRUM.
Phytopathology 55(2):130
 Feb 1965 464.8 P56
 Pectinase, *Verticillium*.

10364-68
 EFFECT OF INOCULUM POTENTIAL OF THE EXPRESSION OF PATHOGENIC
 VARIATION OF FUSARIUM OXYSPORUM F. EATATAS.
Phytopathology 55(5):498
 May 1965 464.8 P56
Fusarium, Immunization, Pathogenicity, Sweetpotatoes.

10365-68
 PHYSIOLOGICAL STRAINS AND ONE ADDITIONAL HOST OF THE SOYBEAN
 CYST NEMATODE, HETERODERA GLYCINES.
Plant Dis Rep 48(7):542-543
 15 Jul 1964 1.9 P69P
Heterodera glycines, Host indexing (plants).

10366-68
 WHITE-SPORED STRAIN OF CHONARTIUM FUSIFORME.
 C H Walkinshaw
Plant Dis Rep 48(9):686
 15 Sep 1964 1.9 P69P
Albinism, *Pinus*, Rust (*pinus*).

10367-68
 GROSS CELL WALL COMPOSITION OF VENTURIJA INAEQUALIS.
 L C Wang
Phytopathology 55(4):401-403, BIBL.
 Apr 1965 464.8 P56
Cell wall, *Fungi*, *Venturia*.

10368-68
 EFFECT OF SCIL TYPE AND MOISTURE ON GERMINATION AND GROWTH
 OF WHEAT FROM SEED TREATED WITH PHORATE.
 M C Wilson
J Sci Food Agr 12(3):I-126-4
 Mar 1961 382 S012
Phorate, Plant physiology, Seed germination, Seed treatment, Wheat.

10369-68
 BASIDIOSPORE RELEASE BY FOMES ANNOSUS.
 F A Wood
Phytopathology 55(2):131
 Feb 1965 464.8 P56
Basidiospores, *Fomes*.

70 CHEMISTRY

10370-68
 APPLICATION OF FLYING SPOT SCANNING TO PARTICLE-SIZE
 ANALYSIS IN THE FORMULATION OF PESTICIDES.
J Sci Food Agr 15(7):II-25-1
 Jul 1964 382 S012
 Optical instruments, Particle size determination.

10371-68
 METHOD OF EVALUATING FUNGICIDES IN THE SOIL UNDER CONTROLLED
 CONDITIONS.
J Sci Food Agr 12(3):I-125-8
 Mar 1961 382 S012
Soil fungi.

10372-68
 ALPHA-ALKYL ALPHA-NITROALKYL ADIPATES.
J Sci Food Agr 12(1) I-23-4
 Jan 1961 382 S012
Coleoptera, Nitro-2,5-dimethoxycarbonyl-7-methyloctane.
 Rohm and Haas Co.
 p bp 820,901, 28.11.56. us 12.12.55

10373-68
 FLY REPELLENT.
J Sci Food Agr 12(2):I-104-2
 Feb 1961 382 S012
Diptera, Insect repellents.

10374-68
 THERMAL DECOMPOSITION OF DDT BY SOME SOIL CONSTITUENTS.
J Sci Food Agr 15(7):II-20-3
 Jul 1964 382 S012
Allophane, Aluminum oxide, Ddt, Decomposition, Iron oxides, Soil mineralogy.

10375-68
 PHENYLAZOFORMAMIDES.
J Sci Food Agr 12(1) I-23-5
 Jan 1961 382 S012
Early blight (potatoes), Para-dimethylaminophenylazoformamide.
 Farbenfabriken Bayer A.-G.
 p bp 821,401, 24.1.58. ger. 7.2.57.

10376-68
 PHYSICAL AND CHEMICAL PROPERTIES OF PESTICIDES. II. CALCULATION OF THE SPECIFIC SURFACE AND THE MEAN DIAMETER OF THE PESTICIDE POWDERS.
J Sci Food Agr 15(7):II-24-9
 Jul 1964 382 S012
Dusting, Mathematical analysis, Particle size determination.

10377-68
 TRIMETHYLHYDROXY-PHENYLCHROMAN DERIVATIVES.
J Sci Food Agr 12(1) I-23-6
 Jan 1961 382 S012
Trihydroxy-2,4,4-trimethylflavan, 7,2,4-.
 N. V. de Bataafsche Petroleum Maats.

10378-68
 RELATION BETWEEN TOXICITY AND CHEMICAL STABILITY IN PHOSPHORUS INSECTICIDES.
J Sci Food Agr 15(7):II-20-2, 14 REFS.
 Jul 1964 382 S012
Chemical control (insects), Chemical reactions, Insecticides, Phosphorus compounds.

10379-68
 TRICHLOROMETHYLTHIO-DERIVATIVES OF AROMATIC AMINES.
J Sci Food Agr 12(1) I-23-7
 Jan 1961 382 S012
Amines.
 N. V. Philips Gloeilampenfabrieken
 p bp 822,237, 15.6.56. neth. 20.6.55

10380-68
 COMPOUNDS FOR COMBATING MICRO-ORGANISMS.
J Sci Food Agr 12(1) I-23-8
 Jan 1961 382 S012
Para-acetamidophenylmercuric acetate.

BIBLIOGRAPHY

70 10403-68

N. V. Philips Gloeilampenfabrieken

10381-68 HEAVY METAL-DIAMINE (A) HYDROHALIDE DOUBLE SALTS. J Sci Food Agr 12(1) I-22-11 Jan 1961 382 S012 Amines, Halides. Armour and Co.

10382-68 6-HALOGENO-3-HYDROXYBENZOIL ACID OMEGA-HALOGENOALKYL. ESTERS. J Sci Food Agr 12(1) I-24-1 Jan 1961 382 S012 Esters. Farbwurke Hoechst A.-G.

10383-68 NEUTRAL ESTERS OF LITHIOPROSPHORIC ACID. J Sci Food Agr 12(1) I-23-2 Jan 1961 382 S012 Phosphorodithioic acid. Farbenfabriken Bayer A.-G.

10384-68 HERBICIDAL COMPOSITIONS. J Sci Food Agr 12(1) I-24-3 Jan 1961 382 S012 Galium, Maticaria, Na 2,3,6-trichlorobenzoate, Na 4-chloro-2-methylphenoxyacetate. Fisons Pest Control Ltd. (Inventor R.K. Pfeiffer)

10385-68 SUBSTITUTED PHENYLUREAS AND HERBICIDAL COMPOSITIONS. J Sci Food Agr 12(1) I-24-4 Jan 1961 382 S012 Phenylurea compounds. E. I. du Pont de Nemours Co.

10386-68 PESTICIDAL ORGANIC PHOSPHORUS COMPOUNDS. J Sci Food Agr 12(1) I-22-12 Jan 1961 382 S012 Acythosiphon, Phosphorus compounds. Hercules Powder Co.

10387-68 THIOLC- AND SELEN-C-PHOSPHORIC, -THIONOPHOSPHORIC, -PHOSPHONIC AND -THIONOPHOSPHONIC ACID ESTERS. J Sci Food Agr Sep 1964 382 S012 Pesticides, Phosphonodithioic acid esters, Phosphorothioic acid esters, Phosphorodithioic acid esters, Phosphorothioic acid esters. Farbenfabriken Bayer A.-G. (R.P. 922,378, 12.4.61. Ger., 16.4.60).

10388-68 THIOPHOSPHORIC ACID ESTERS. J Sci Food Agr 12(1) I-23-3 Jan 1961 382 S012 Aphididae, Phosphorothioic acid esters, Tetranychidae. Farbenfabriken Bayer A.-G. p bp 822,471, 17.12.57. ger, 21.12.56

10389-68 PHYSICO-CHEMICAL STUDIES ON AGRICULTURAL SPRAYS. V. -THE INCORPORATION OF WETTING AGENTS IN HIGH-VOLUME SPRAYS. J Sci Food Agr 15(8):542-550, 18 REFS., 2 TARS. Aug 1964 382 S012 Leaves, Pesticides, Spraying, Surface-active agents.

10390-68 PRODUCTION OF THIONOPHOSPHORIC ACID ESTERS. J Sci Food Agr 12(1) I-23-1 Jan 1961 382 S012 Tetraethylthionophosphoric acid sulphoxide. Farbenfabriken Bayer a.-g.

10391-68 MITICIDES AND MITICIDAL COMPOSITIONS COMPRISING AN AZOXY COMPOUND. J Sci Food Agr 15(7):II-29-5 Jul 1964 382 S012 Acaricides. (R.P. 917,149,286\$61)

10392-68 PESTICIDAL PHOSPHORUS COMPOUNDS I. FUNGICIDES, INSECTICIDES AND ACARICIDES DERIVED FROM 3-AMINO-1,2,4-TRIAZOLE. B G van den Ros M J Koopmans H O Huisman J Sci Food Agr 12(2) I-74-2 Feb 1961 382 S012 Phosphorus compounds.

10393-68 FOOD. E Borker Anal Chem 37(5):70R-87R. 690 REFS. Apr 1965 381 J825A Food additives, Food adulteration, Food analysis, Food contamination, Reviews.

10394-68 IDENTIFICATION OF PESTICIDES AT NANOGRAM LEVEL BY EXTRACTION P-VALUES. M C Rowman Anal Chem 37(2):291-292, 5 REFS. Feb 1965 381 J825A Aldrin, Carbophenothion, Dieldrin, Endosulfan, Heptachlor.

10395-68 MICRORIOLOGICAL ACTIVITY OF CERTAIN SATURATED AND UNSATURATED FATTY ACID SALTS OF TETRADECYLAMINE AND RELATED COMPOUNDS. M Bratt A G Wilson L Weintraub M Kunz J Sci Food Agr 12(3):I-126-2 Mar 1961 382 S012 Patty acids, Microorganisms, Tetracycline, Toxins.

10396-68 COMMERCIALISATION TECHNOLOGY AND ECONOMICS IN RADIATION PROCESSING. D C Brunton J Sci Food Agr 12(1):I-56-4 Jan 1961 382 S012 Food processing, Radioisotopes, Sterilization.

10397-68 DETERMINATION OF AVAILABLE LYSINE IN OILSEED MEAL PROTEINS. F L Carter V L Frampton Anal Chem 35(12):1927-1930, 22 REFS. Nov 1963 381 J825A Lysine, Meal, Oilseeds, Plant proteins.

10398-68 MICROCOULOMETRIC GAS CHROMATOGRAPHY OF PESTICIDES. D M Coulson L A Cavanagh J E de Vries R Walther J Sci Food Agr 12(2) I-75-7 Feb 1961 382 S012 Aldrin, Chromatography, Dieldrin, DDT, Endrin, Lindane.

10399-68 ASSAY FOR THE DETECTION OF NEMATODE REPELLANTS. J E Deak J Sci Food Agr 12(3):I-125-7 Mar 1961 382 S012 Biological assay, Insect repellents, Nematodes.

10400-68 DETERMINATION OF TOXAPHENE BY A SPECTROPHOTOMETRIC DIPHENYL-AMINE PROCEDURE. C L Dunn J Sci Food Agr 12(1):I-56-2 Jan 1961 382 S012 Pesticide residues, Spectrophotometry, Toxaphene.

10401-68 DETERMINATION OF TOTAL RADIOSTRONTIUM IN BIOLOGICAL SAMPLES CONTAINING LARGE QUANTITIES OF CALCIUM. SELECTIVE PRECIPITATION WITH POTASSIUM RHODIZONATE. Anal Chem 35(6):744-747, 7 REFS. May 1963 381 J825A Calcium, Precipitation, Strontium.

10402-68 CHEMICAL STRUCTURE AND INSECTICIDAL ACTIVITY OF COMPOUNDS WITH A CHLORINATED CYCLOPROPANE RING. J Parkas J Sci Food Agr 12(3):I-125-6 Mar 1961 382 S012 Chlorine.

10403-68 PREPARATION AND BIOLOGICAL ACTIVITY OF HALOGENATED ETHYL AND VINYL DIMETHYL PHOSPHATE ESTERS. R W Fay T B Gaines G W Pearce

BIBLIOGRAPHY

70 10404-68

J Sci Food Agr 12(1):I-54-5
Jan 1961 382 S012
Bromine, Chlorine, *Musca domestica*, Phosphates, Rats.

10404-68
WATER ANALYSIS.

M J Fishman
Anal Chem 37(5):232R-260R, 569 REFS.
Apr 1965 381 J825A
Alkali metals, Aluminum, Cadmium, Chromium, Copper, Gases, Iron, Lead, Manganese, Nickel, Reviews, Rhenium, Water analysis, Water pollution, Zinc.

10405-68
ALKOXYPHENYL N-METHYLCARBAMATES AS INSECTICIDES.
T R Fukuto M Y Winton
J Sci Food Agr 12(3):I-125-2
Mar 1961 382 S012
Carbamates, Culicidae, *Musca domestica*.

10406-68
COMPATIBILITY OF STREPTOMYCIN WITH SOME FUNGICIDES AND INSECTICIDES.
R N Goodman
Plant Dis Rep 48(3):180-181
15 Mar 1964 1-9 P69P
Fungicides, Insecticides, Streptomycin.

10407-68
THE DITHIOCARBAMATES.
D G Hessayon
J Sci Food Agr 12(2) I-75-1
Feb 1961 382 S012
Carbamates, Molecules.

10408-68
SYNERGISTIC AND ANTAGONISTIC ACTIONS OF INSECTICIDE-SYNERGIST COMBINATIONS AND THEIR MODE OF ACTION.
E R Johnson
J Sci Food Agr 12(1):I-54-6
Jan 1961 382 S012
Musca domestica, Piperonyl butoxide, Pyrethrum, Sesamolin, Sulfoxide.

10409-68
SUBSTITUTED ARYLOXY-ALKANOL DERIVATIVES FOR USE AS BIOLOGICALLY ACTIVATED PRE-EMERGENCE HERBICIDES.V, 36.
L J King
J Sci Food Agr 12(1) I-22-5
Jan 1961 382 S012
Natrin, Sesone.

10410-68
INVERT EMULSIONS.
J H Kirch J R Sterry
J Sci Food Agr 12(2) I-75-8
Feb 1961 382 S012
Emulsions.

10411-68
DETERMINATION OF STRONTIUM IN ENVIRONMENTAL MEDIA USING NEUTRON ACTIVATION.
F E Knowles Jr
Anal Chem 37(9):1112-1115. 13 REFS.
Aug 1965 381 J825A
Copper, Neutron activation analysis, Strontium.

10412-68
ELECTROCHEMICAL DETERMINATION OF ORGANOPHOSPHOROUS COMPOUNDS.
D N Kramer P L Cannon Jr
Anal Chem 34(11):1437-1439, 8 REFS.
Nov 1962 381 J825A
Demeton, Electrochemistry, Malathion, Parathion, Phosphorus.

10413-68
ELECTRON AFFINITY RESIDUE DETERMINATION OF CIDC, MONURON, DIURON AND LINURON BY DIRECT HYDROLYSIS AND BROMINATION.
D J Lisk
J Sci Food Agr 15(8):II-85-10
Aug 1964 382 S012
Chromatography, Diuron, Herbicide residues, CIPC, Linuron, Monuron, Plants.

10414-68
GAS CHROMATOGRAPHIC METHOD FOR (THE DETERMINATION OF)
SILVEX.
D J Lisk
J Sci Food Agr 15(9):II-126-6
Sep 1964 382 S012

Chromatography, Electron capture, Water analysis.

10415-68
METHYLENEDIOXYPHENYL DERIVATIVES AS SYNERGISTS FOR CARBAMATE INSECTICIDES ON SUSCEPTIBLE, DDT- AND PARATHION-RESISTANT HOUSE-FLIES.
R Miskus V Sutcher
J Sci Food Agr 12(1):I-55-1
Jan 1961 382 S012
Carbaryl, Ddt, Insecticide resistant insects, *Musca domestica*, Parathion, Sesamex.

10416-68
BIOCHEMICAL STUDIES OF COCHLIOBOLUS MIYABEANUS-IV FUNGICIDAL ACTION OF POLYPHENOLS ROLE OF THE POLYPHENOLOXIDASE.
H Oku
J Sci Food Agr 12(2) I-75-4
Feb 1961 382 S012
Catechol, Phenols.

10417-68
FLUOROACETAMIDE AND SOME DERIVATIVES AS PESTICIDES. I.
M A Phillips
J Sci Food Agr 12(2) I-74-1
Feb 1961 382 S012
Fluorine compounds.

10418-68
ANALYSIS OF PESTICIDE RESIDUES USING MICROCOULOMETRIC TEMPERATURE-PROGRAMMED GAS CHROMATOGRAPHY.
Anal Chem 35(7):833-837, 9 REFS.
Jun 1963 381 J825A
Aldrin, Chromatography, Demeton, Diazinon, Disulfoton, Heptachlor, Insecticide residues, Lindane, Malathion, Parathion, Phorate, Sulfur, Temperature.

10419-68
COMPARATIVE VALUE OF SOME SYNTHETIC COMPOUNDS AS SYNERGISTS WITH BARTHIN IN HOUSE-FLY SPRAYS.
P G Piquett S I Gertler B H Alexander
J Sci Food Agr 12(1):I-55-2
Jan 1961 382 S012
Barthrin, *Musca domestica*, Sesamex.

10420-68
CHEMICAL AND BIOLOGICAL EXAMINATION OF COMMERCIAL PYRETHRUM EXTRACTS FOR INSECTICIDAL CONSTITUENTS.
R M Sawicki E M Thain
J Sci Food Agr 12(2) 137-145, BIBL., TABS.
Feb 1961 382 S012
Biochemistry, Chemical analysis, Insecticides, Pyrethrum extract.

10421-68
PREPARATION AND FUNGITOXICITY OF TRIALKYL PHOSPHOROTETRA-SHIOATES.
C B Scott J W Yale Jr S Hashimoto
J Sci Food Agr 12(2) I-74-4
Feb 1961 382 S012
Phosphorus compounds.

10422-68
FUNGICIDES. VIII. FUNGICIDAL PROPERTIES OF SOME THIOCARBAMYLTHIONITROPARAFFINS.
W Sobotka D M Spencer
J Sci Food Agr 15(7):II-21-3
Jul 1964 382 S012
Fungicides.

10423-68
INFLUENCE OF SUBSTITUTION AND MOLECULAR CONFORMATION ON THE UPTAKE OF S-TRIAZINES BY FUNGUS SPORES.
E E Storrs
J Sci Food Agr 15(7):II-23-7
Jul 1964 382 S012
Alkoxy groups, Alkylation, Fungicides, Halogens.

10424-68
AGRICULTURAL FUNGICIDES. P-AMINOAZOBENZENES.
L A Summers
J Sci Food Agr 15(7):II-21-2
Jul 1964 382 S012
Fungicides, Para-aminoazobenzene.

10425-68
PESTICIDES.
Anal Chem 35(5):105R-110R, 90 REFS.
Apr 1963 381 J825A
Aldrin, Ddt, Dieldrin, Endrin, Heptachlor, Lindane, Residues, Tde.

BIBLIOGRAPHY

80 10441-68

10426-68
 AIR POLLUTION.
Anal Chem 35(5):3R-10R, 240 REFS.
 Apr 1963 381 J825A
 Aerosols, Air pollution, Exhaust gases.

10427-68
 AIR POLLUTION.
Anal Chem 37(5):11R-20R, 305 REFS.
 Apr 1965 381 J825A
 Air pollution, Reviews.

10428-68
 ESTIMATION OF STRONTIUM-84 IN BIOLOGICAL MATERIAL BY NEUTRON ACTIVATION ANALYSIS.
Anal Chem 35(6):749-751, 4 REFS.
 May 1963 381 J825A
 Barium, Neutron activation analysis, Nitric acid, Radioactive tracers.

10429-68
 FERTILIZERS.
 J P Ussary
Anal Chem 37(5):67R-70R, 62 REFS.
 Apr 1965 381 J825A
 Fertilizers, Nitrogen, Pesticides, Phosphorus, Potassium, Reviews.

10430-68
 EFFECT OF PERFUMERY CHEMICALS ON THE INSECTICIDAL EFFICIENCY OF PYRETHRUM.
 F G S Whitfield A H Baker
J Sci Food Agr 12(2):I-104-1
 Feb 1961 382 S012
 Pyrethrum.

10431-68
 REVERSAL OF FUNGITXICITY OF 8-QUENOLINOL BY AMINO-ACIDS AND OTHER CHELATORS.
 G A Zentmyer S Rich T G Horsfall
J Sci Food Agr 12(2): I-75-3
 Feb 1961 382 S012
 Amino acids, Quinoline.

80 ENGINEERING

10432-68
 PURIFICATION OF BEAN POD MOTTLE VIRUS USING THE AGAR COLUMN TECHNIQUE.
 M A Bryan
Phytopathology 55(5):502
 May 1965 464.8 P56
 Agar, Beans, Culture media.

10433-68
 A SIMPLE, INEXPENSIVE METABOLISM CAGE FOR SMALL MAMMALS.
 G H Gass
Can J Comp Med Vet Sci 27(3):69-70
 Mar 1963 41.8 C162
 Equipment, Laboratory animals, Metabolism stalls.

10434-68
 SEROLOGICAL TECHNIQUES FOR IDENTIFYING BACTERIAL SPOT OF TOMATO.
Phytopathology 55(5):500-501
 May 1965 464.8 P56
 Bacterial spot (tomatoes), *Lycopersicon*, Serological tests, Tomatoes.

10435-68
 A SIMPLIFIED LOGARITHMIC SPRAYER DESIGNED FOR THE APPLICATION OF FUNGICIDES.
 E S Hagood
Phytopathology 55(2):128
 Feb 1965 464.8 P56
 Fungicides, Spraying equipment.

10436-68
 AN INSECT FLIGHT CHAMBER.
 L A Halgren C W Rettenmeyer
J Econ Entomol 60 (4):01165-1167
 15 Aug 1967 421 J822
Aphis fabae, Insect collecting equipment, Insect flight, *Macrosiphum avenae*, *Schizaphis graminum*.

10437-68
 DIRECT RECOVERY OF PHYTOPHTHORA CINNAMOMI FROM FIELD SOIL.
 F F Hendrix Jr
Phytopathology 55(5):500
 May 1965 464.8 P56
 Culture media, *Phytophthora*.

10438-68
 A DETACHED CUCUMBER LEAF METHOD OF SCREENING FUNGICIDES FOR THE CONTROL OF ANTHRACNOSE.
Plant Dis Rep 48(5):331-332
 15 May 1964 1.9 P69P
 Cucumbers, Fungicides, Toxicology.

10439-68
 A VOLUMETRIC DISPENSER FOR INSECT MEDIA.
 A E Lovitt
J Econ Entomol 60 (4):1179-1180
 15 Aug 1967 421 J822
 Equipment, Insect cultures, Insect rearing, Stored products, Volumetric analysis.

10440-68
 CONTINUOUS CHLORIDE-ION COMBUSTION METHOD APPLIED TO DETERMINATION OF ORGANOCHLORINE INSECTICIDE.
 T A Miller T E Jenkins
Anal Chem 37(11):1386-1391
 Oct 1965 381 J825A
 Furnaces, Hydrochloric acid, Insecticide residues.

10441-68
 WEATHER OBSERVING EQUIPMENT IN PLANT DISEASE RESEARCH.
 T L Noffsinger
Plant Dis Rep 48(9):704-707
 15 Sep 1964 1.9 P69P
 Measuring equipment, Weather forecasting.

BIBLIOGRAPHY

80 10442-68

10442-68
A SEMI-AUTOMATIC SCALE TO METER WATER FOR GREENHOUSE
IRRIGATION.
Phytopathology 55(4):473-474, BIBL.
Apr 1965 464.8 P56
Greenhouse culture, Irrigation, Water meters.

10443-68
USE OF THE CNION TEST AS QUANTITATIVE METHOD FOR DETERMINING
THE DISTRIBUTION OF EMULSIFIABLE 1,2-DIBROMO-3-CHLOROPROPANE
IN SOIL.
A Rinkov S D Van Gundy R L Ralham M J Garber
J Sci Food Agr 12(2) I-78-5
Feb 1961 362 S012
Onions, Plant physiology, 1,2-dibromo-3-chloropropane.

10444-68
A WINE-ORIENTED ATTRACTANT TRAP FOR GNATS.
C J Rogers R F Schoepfner R H Whitsel
J Econ Entomol 60 (4)01190-1191
15 Aug 1967 421 J822
Attractants, Insect traps, Leptoconops torrens, Wind.

10445-68
AN IMPROVED METHOD FOR THE EXTRACTION OF SPORES FROM ELM
TWIGS.
E A Root
Plant Dis Rep 48(6):654-655
15 Aug 1964 1.9 F69P
Equipment, Spores, Ulmus.

10446-68
A RAPID CENTRIFUGAL-FLOTATION TECHNIQUE FOR SEPARATING
NEMATODES FROM SOIL.
Plant Dis Rep 48(9):692
15 Sep 1964 1.9 F69P
Centrifugation, Nematodes, Soils.

10447-68
AN IMPROVED OLFACTOMETER FOR USE IN STUDYING MOSQUITO
ATTRACTANTS AND REPELLENTS.
C E Schreck H K Gouck N Smith
J Econ Entomol 60 (4)01188-1190
15 Aug 1967 421 J822
Attractants, Culicidae, Insect repellents, Olfactometers.

10448-68
A NEW POLAROGRAPHIC METHOD FOR THE MICRODETERMINATION OF
CHLORopicrin IN AIR.
J Solomon
Anal Chem 34(4):514
Apr 1962 381 J825A
Air, Chloropicrin, Electrodes, Mercury, Polarography.

10449-68
CORRELATION OF STRUCTURE OF PHOSPHATE PESTICIDES WITH RES-
PONSE IN ELECTRON AFFINITY DETECTORS.
C W Stanley J E Barney II
Anal Chem 36(12):2354-2358, 25 REFS.
Nov 1964 381 J825A
Electrons, Equipment.

10450-68
BEHAVIOR OF DEMETON IN ELECTRON AFFINITY DETECTORS.
C W Stanley C E Cook
Anal Chem 35(13):2206-2208, 16 REFS.
Dec 1963 381 J825A
Demeton, Electrons, Equipment.

10451-68
AN APPARATUS FOR COLLECTING ANTS IN LARGE QUANTITIES.
O D Steiner M M Martin
J Econ Entomol 60 (4)01169-1170
15 Aug 1967 421 J822
Formicidae, Insect collecting equipment.

10452-68
A SIEVING-STRAINING TECHNIQUE FOR EXTRACTION OF EGG MASSES
OF HELOIDCSYNE INCAGNITA FROM SCIL.
F B Struble
Phytopathology 55(5):497
May 1965 464.8 P56
Meloidogyne, Soils.

10453-68
ISOLATION OF AGROBACTERIUM TUMEFACIENS-A. RADIOBACTER
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J P Thompson D C Hildebrand
Phytopathology 55(6):645-647, BIBL., PL.
Jun 1965 464.8 P56

Agrobacterium, Culture media.

10454-68
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Plant Dis Rep 48(5):391-393
15 May 1967 1.9 P69B
Ear rot (corn), Plant disease transmission.

10455-68
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FUNGI.
Phytopathology 55(2):246, BIBL.
Feb 1965 464.8 P56
Culture media, Fungi, Glycerol, Jellies.

10456-68
SAND AS A CARRIER FOR SYNTHETIC SEX PHEROMONE OF CABBAGE
LOOPERS USED TO BAIT BLACK LIGHT AND CARTON TRAPS.
W W Wolf A N Kishaba A F Howland T J Henneberry
J Econ Entomol 60 (4)01182-1184
15 Aug 1967 421 J822
Cartons, Infrared rays, Insect traps, Light traps, Pheromones,
Sand, Sex attractants, Trichoplusia ni.

10444-68
AN IMPROVED METHOD FOR THE EXTRACTION OF SPORES FROM ELM
TWIGS.
E A Root
Plant Dis Rep 48(6):654-655
15 Aug 1964 1.9 F69P
Equipment, Spores, Ulmus.

10446-68
A RAPID CENTRIFUGAL-FLOTATION TECHNIQUE FOR SEPARATING
NEMATODES FROM SOIL.
Plant Dis Rep 48(9):692
15 Sep 1964 1.9 F69P
Centrifugation, Nematodes, Soils.

10447-68
AN IMPROVED OLFACTOMETER FOR USE IN STUDYING MOSQUITO
ATTRACTANTS AND REPELLENTS.
C E Schreck H K Gouck N Smith
J Econ Entomol 60 (4)01188-1190
15 Aug 1967 421 J822
Attractants, Culicidae, Insect repellents, Olfactometers.

10448-68
A NEW POLAROGRAPHIC METHOD FOR THE MICRODETERMINATION OF
CHLORopicrin IN AIR.
J Solomon
Anal Chem 34(4):514
Apr 1962 381 J825A
Air, Chloropicrin, Electrodes, Mercury, Polarography.

10449-68
CORRELATION OF STRUCTURE OF PHOSPHATE PESTICIDES WITH RES-
PONSE IN ELECTRON AFFINITY DETECTORS.
C W Stanley J E Barney II
Anal Chem 36(12):2354-2358, 25 REFS.
Nov 1964 381 J825A
Electrons, Equipment.

10450-68
BEHAVIOR OF DEMETON IN ELECTRON AFFINITY DETECTORS.
C W Stanley C E Cook
Anal Chem 35(13):2206-2208, 16 REFS.
Dec 1963 381 J825A
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10451-68
AN APPARATUS FOR COLLECTING ANTS IN LARGE QUANTITIES.
O D Steiner M M Martin
J Econ Entomol 60 (4)01169-1170
15 Aug 1967 421 J822
Formicidae, Insect collecting equipment.

10452-68
A SIEVING-STRAINING TECHNIQUE FOR EXTRACTION OF EGG MASSES
OF HELOIDCSYNE INCAGNITA FROM SCIL.
F B Struble
Phytopathology 55(5):497
May 1965 464.8 P56
Meloidogyne, Soils.

10453-68
ISOLATION OF AGROBACTERIUM TUMEFACIENS-A. RADIOBACTER
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J P Thompson D C Hildebrand
Phytopathology 55(6):645-647, BIBL., PL.
Jun 1965 464.8 P56

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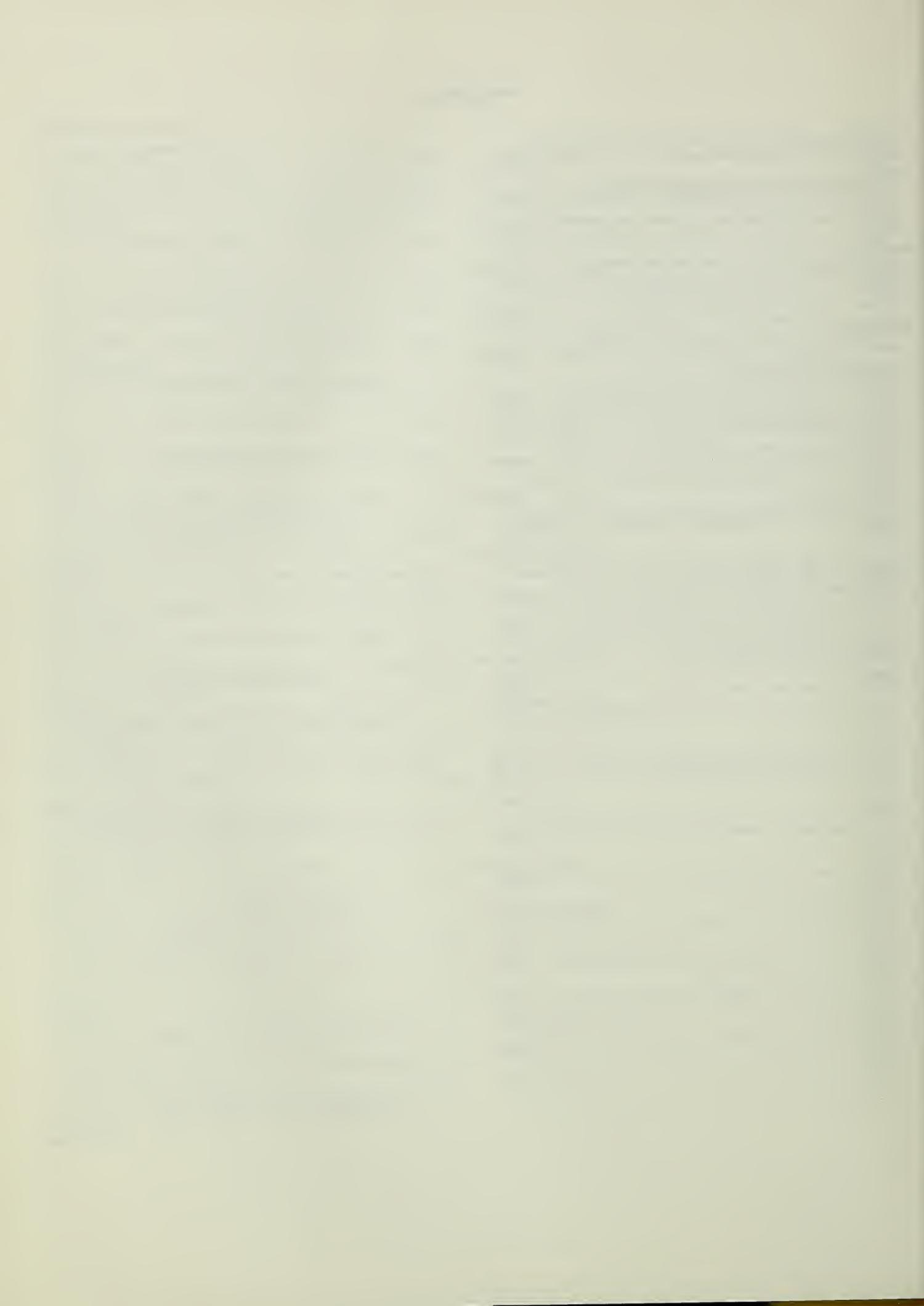
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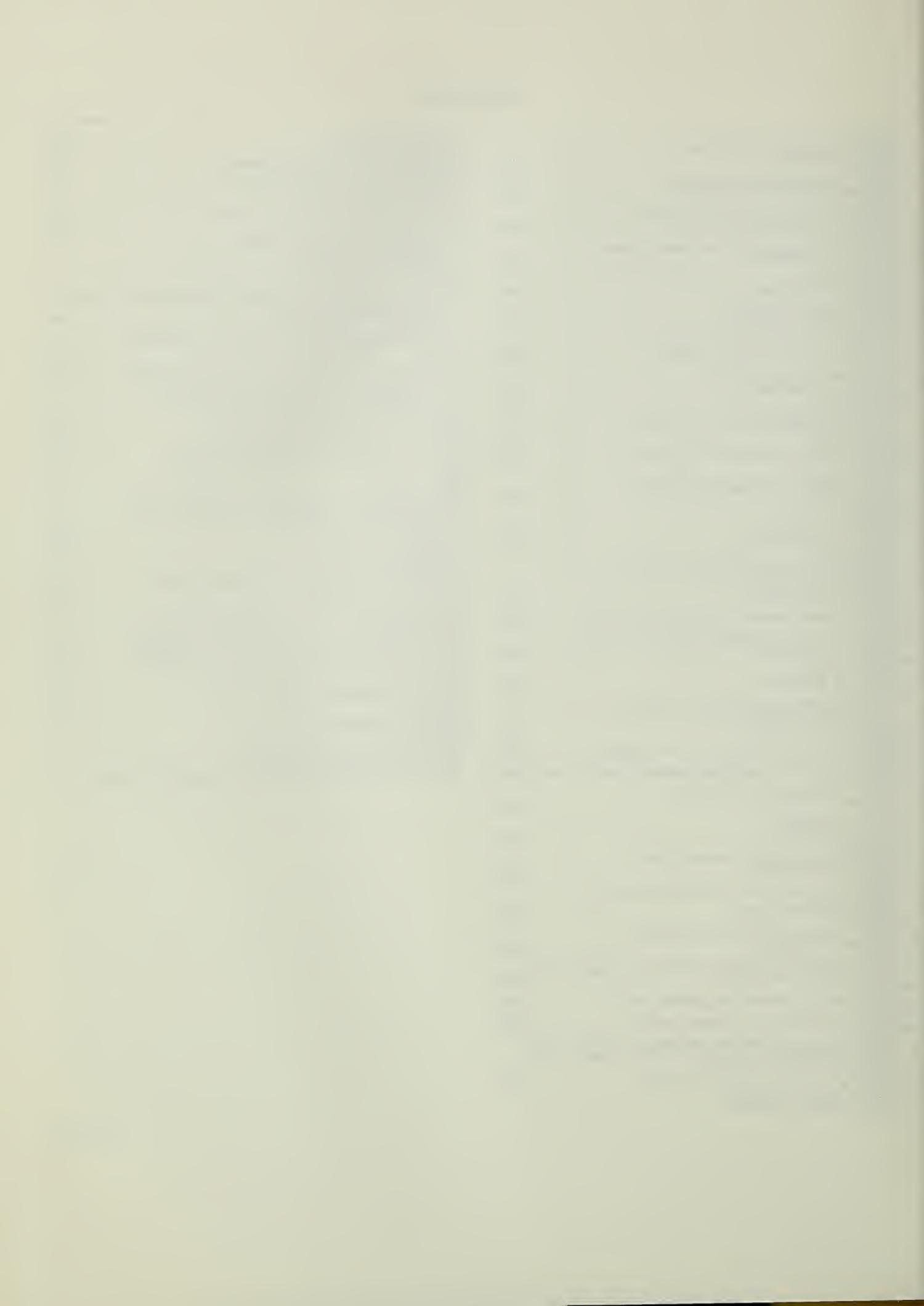
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